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ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING AND PROSPECTING

at the

HOPEFUL PROPERTY

Hope 1-4	YB48348-YB48351
Full 1-60	YC61084-YC61143
61-68	YC63137-YC63144

NTS 115P/14
Latitude 63°54’ N; Longitude 137°17’ W

in the

Dawson Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.

by

Sarah Eaton, B.Sc. Geology
November 2007

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INTRODUCTION

The Hopeful property hosts silver-lead-tin mineralization in tourmaline greisen and quartz ± tourmaline veins. The property is located in central Yukon and is under option to ATAC Resources Ltd, which can earn a 100% interest subject to a small net smelter return royalty.

This report describes a two phase exploration program that was conducted on behalf of ATAC during summer 2007. The first phase of exploration was done by Archer, Cathro & Associates (1981) Limited between July 24 and 27. This program consisted of prospecting and geochemical sampling by a two to four person crew from a camp at the Mike Lake property, approximately 40 km to the northwest. The second phase comprised helicopter-borne versatile time domain electromagnetic (VTEM) and magnetic surveys conducted by Geotech Ltd. on August 30. The author participated in the first phase and directed second phase of the program. The author's Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Hopeful property is located in the Syenite Range Mountains of central Yukon, 100 km east of Dawson City at latitude 63°54' north and longitude 137°17' west on NTS map sheet 115P/14 (Figure 1).

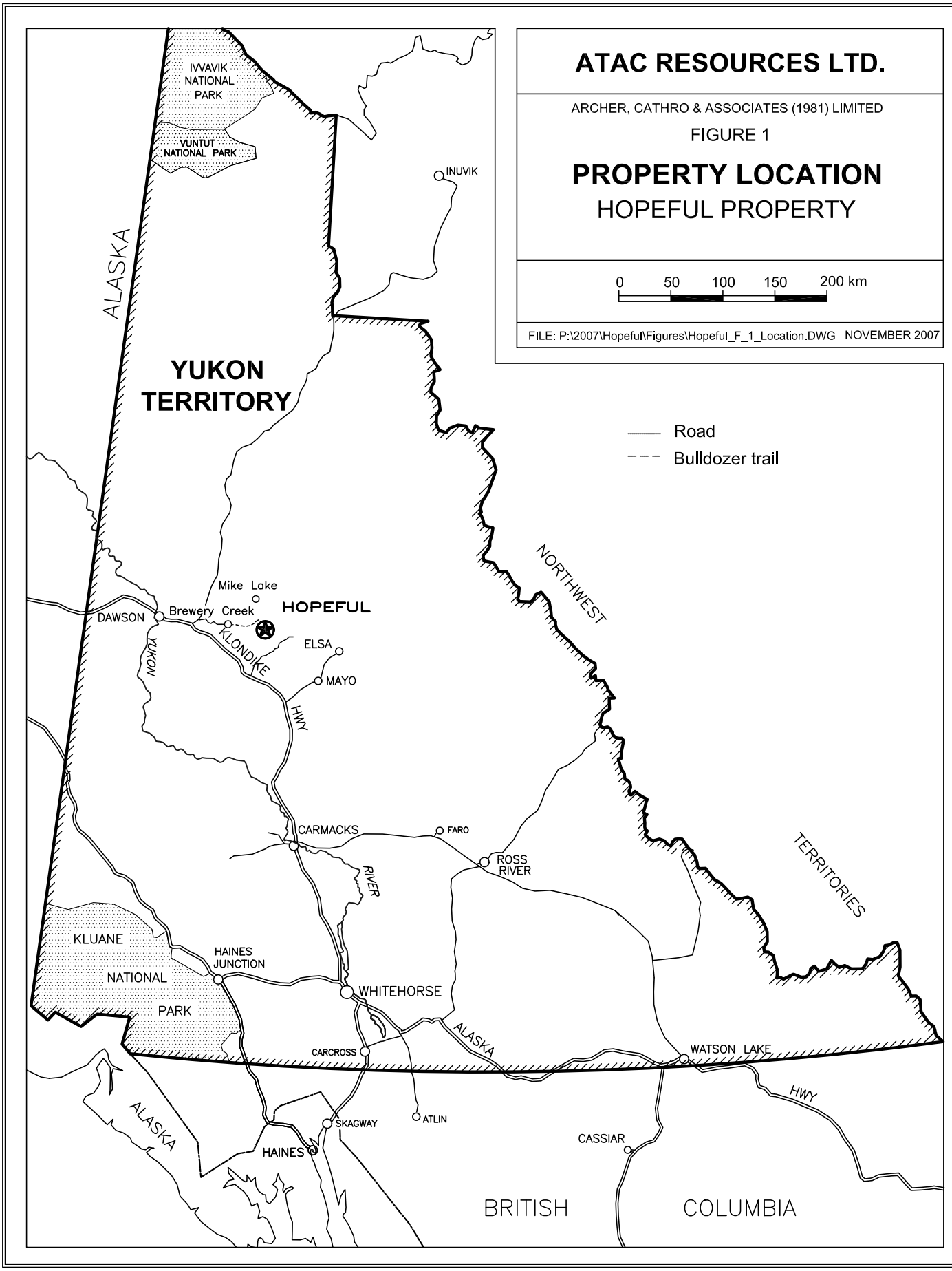
The property comprises 64 contiguous mineral claims covering 1278 ha. The claims are registered with the Dawson Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Claim data are listed below while the locations of individual claims are shown on Figure 2.

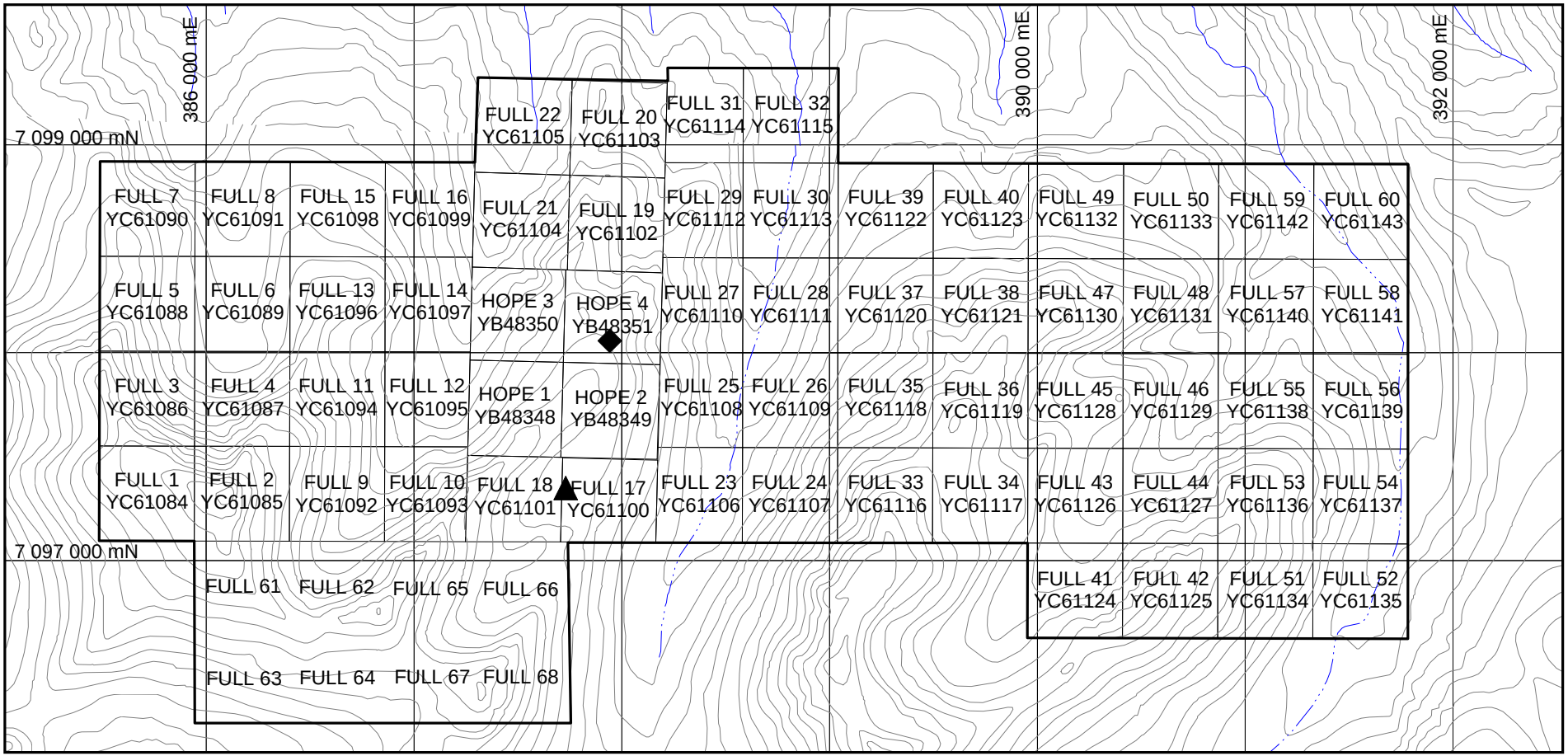
Claim Name	Grant Number	Expiry Date
Hope 1-4	YB48348-YB48351	April 8, 2013*
Full 1-60	YC61084-YC61143	April 8, 2013*
61-68	YC63137-YC63144	November 22, 2008

* Expiry dates include 2007 work that has been filed for assessment credit but not yet accepted.

During the first phase of the 2007 program, daily access to and from the property was provided by a Hughes 500D helicopter, which was operated by Fireweed Helicopters Ltd. out of the Mike Lake camp. A Bell 206B helicopter operated by Fireweed Helicopters from its base in Dawson City was also used on a few occasions. The helicopter-borne geophysical surveys were done from a temporary base at the Dawson City airport.

The closest road access is the Clear Creek Road, which passes within 20 km of the property (Figure 1). However, the best access route for heavy equipment might be by way of the former Brewery Creek Mine, about 48 km to the west. The former mine site is reached via the North Klondike Road, which branches off the Dempster Highway about 7 km from its junction with the Klondike Highway. A winter cat trail of unknown condition runs from the former mine site up the South Klondike and Ross Creek valleys, passing within 4 km of the Hopeful property.


ATAC RESOURCES LTD.
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
FIGURE 1
PROPERTY LOCATION
HOPEFUL PROPERTY
0 50 100 150 200 km
FILE: P:\2007\Hopeful\Figures\Hopeful_F_1_Location.DWG NOVEMBER 2007
IVVAVIK NATIONAL PARK
VUNTUT NATIONAL PARK
INUVIK
ALASKA
YUKON TERRITORY
Road
Bulldozer trail
NORTHWEST
Mike Lake
Brewery Creek
HOPEFUL
DAWSON
YUKON
KLONDIKE
ELSA
MAYO
HWY
CARMACKS
FARO
ROSS RIVER
RIVER
TERRITORIES
KLUANE
NATIONAL PARK
HAINES JUNCTION
WHITEHORSE
CARCROSS
ALASKA
WATSON LAKE
HWY
SKAGWAY
ATLIN
HAINES
CASSIAR
ALASKA
BRITISH COLUMBIA



▲ 1984 Camp

◆ 1988 Camp

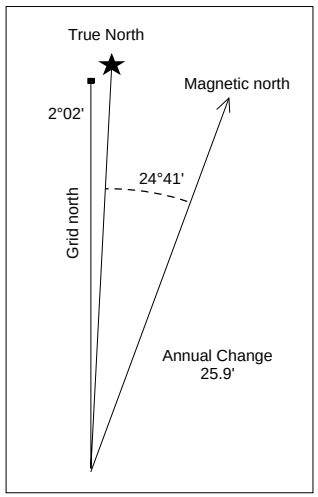


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FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS
HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_claims.WOR DATE: NOV 2007

HISTORY AND PREVIOUS WORK

The area now covered by the Hopeful property was originally discovered in 1980 during a silt sampling program carried out by Mattagami Lake Exploration Co. Ltd. Silt collected from a creek that drains the northern edge of the Lost Horses Stock (subsequently named Arsenic Creek) was found to be highly anomalous for arsenic, with a value of 200 ppm in a background of 2 ppm (Metcalf, 1980; Biczok, 1980). Follow-up geochemical sampling was done in 1981 and again in 1982 along with detailed prospecting. These programs defined more arsenic anomalies and discovered a probable source at what is now called the Mattagami Zone (Jago, 1982).

In 1983, Noranda Exploration Company staked 40 claims over the anomalous drainages and conducted trenching and geological mapping, which outlined tourmaline-quartz-clay-sulphide mineralization in subcrop. The highest assay was 445.72 g/t silver (Jago, 1984).

In 1984, Noranda staked another 40 claims and carried out detailed and reconnaissance geological mapping, prospecting, trenching, soil sampling, a VLF electromagnetic survey and 10 diamond drill holes totalling 883 m (Figure 3). This exploration program focussed on the Mattagami Zone, where a 10 to 30 m wide alteration zone containing significant silver values was drill-tested over a strike length of 260 m and to a depth of 75 m (Jago, 1984).

In 1986, Danra Resources Limited optioned the claims from Noranda.

In 1988, Danra completed an additional four diamond drill holes totalling 608.7 m, all of which intersected silver mineralization. Drill core from both this and the 1984 programs was left on the property, along with drill timbers and camp debris. The locations of the historic camps are marked on Figure 2.

The 1984 and 1988 drill hole information is summarized as follows (see Mineralization section for results):

Hole #	Length (m)	Dip	Azimuth	Collar Location*	
				Easting (mE)	Northing (mN)
DDH84-1	40.10	45°	335°	387862	7088131
DDH84-2	65.80	70°	335°	387862	7088131
DDH84-3	62.80	45°	335°	387911	7098150
DDH84-4	60.97	70°	335°	387911	7098150
DDH84-5	80.48	45°	335°	388042	7098117
DDH84-6	107.00	55°	335°	NR	NR
DDH84-7	100.90	55°	335°	387878	7098096
DDH84-8	111.10	56°	335°	NR	NR
DDH84-9	128.05	55°	335°	NR	NR
DDH84-10	125.91	56°	335°	NR	NR
DDH88-1	131.67	55°	335°	387887	7098079
DDH88-2	160.02	45°	335°	387948	7098057
DDH88-3	138.68	45°	335°	387990	7098085
DDH88-4	178.31	47°	335°	387856	7098019

*UTM coordinates reported were surveyed in 2007; NR = Not Relocated.

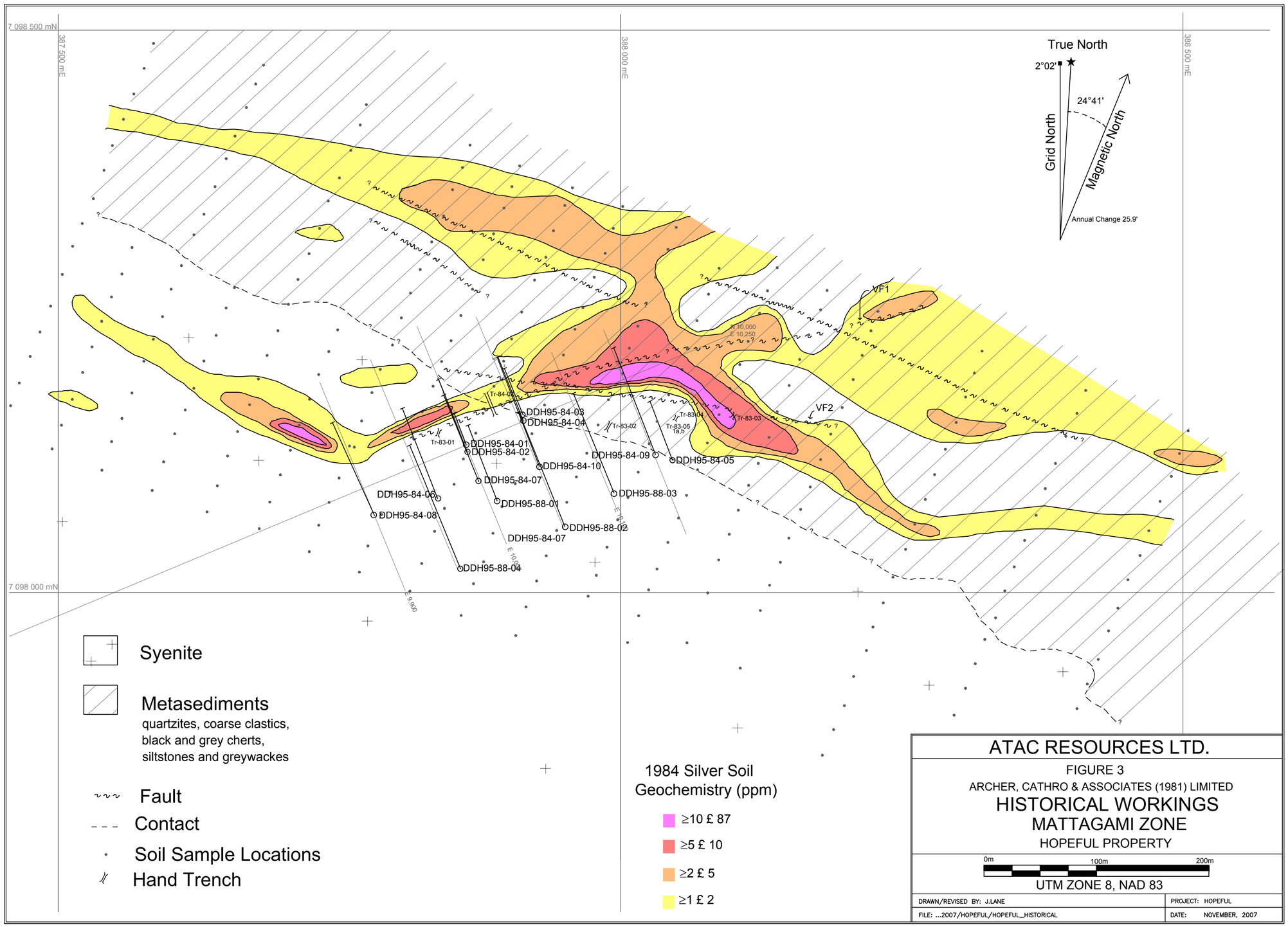

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

HISTORICAL WORKINGS
MATTAGAMI ZONE

HOPEFUL PROPERTY

0m 100m 200m

UTM ZONE 8, NAD 83

DRAWN/REVISED BY: J.LANE	PROJECT: HOPEFUL
FILE: ...2007/HOPEFUL/HOPEFUL_HISTORICAL	DATE: NOVEMBER, 2007

GEOMORPHOLOGY

The Hopeful property is located in the Syenite Range of the Ogilvie Mountains. It is drained by creeks that flow into the South Klondike River and ultimately into the Pacific Ocean via the Yukon River.

The geomorphological setting is alpine to sub-alpine with local elevations ranging from 1070 m to 1707 m. The northern portion of the property is characterized by gently rolling, shrub-covered hills that slope moderately northward into Ross Creek valley. At lower elevations, the slopes and creek valleys are covered with spruce and lesser poplar. The uplands show evidence of widespread alpine glaciation with moderate to steep, blocky talus slopes vegetated by sparse shrubs giving way to very steep cliffs along the headwalls of cirques in the southern part of the property. Outcrop is largely restricted to cliff faces and deeply incised gullies. A forest fire burned the northwest portion of the claim block and adjacent areas. Re-growth is in its early stages, with only long grasses and brush present at this time.

Water supply in freshets is abundant in spring and early summer as a result of melting snow and ice, but is unreliable from mid-summer through fall. These higher elevation streams tend to dry up, and replenishment from rainfall is variable due to the unpredictability of weather in the Syenite Range. Streams on the valley floors generally provide sufficient water for drilling throughout the spring, summer and fall.

REGIONAL GEOLOGY

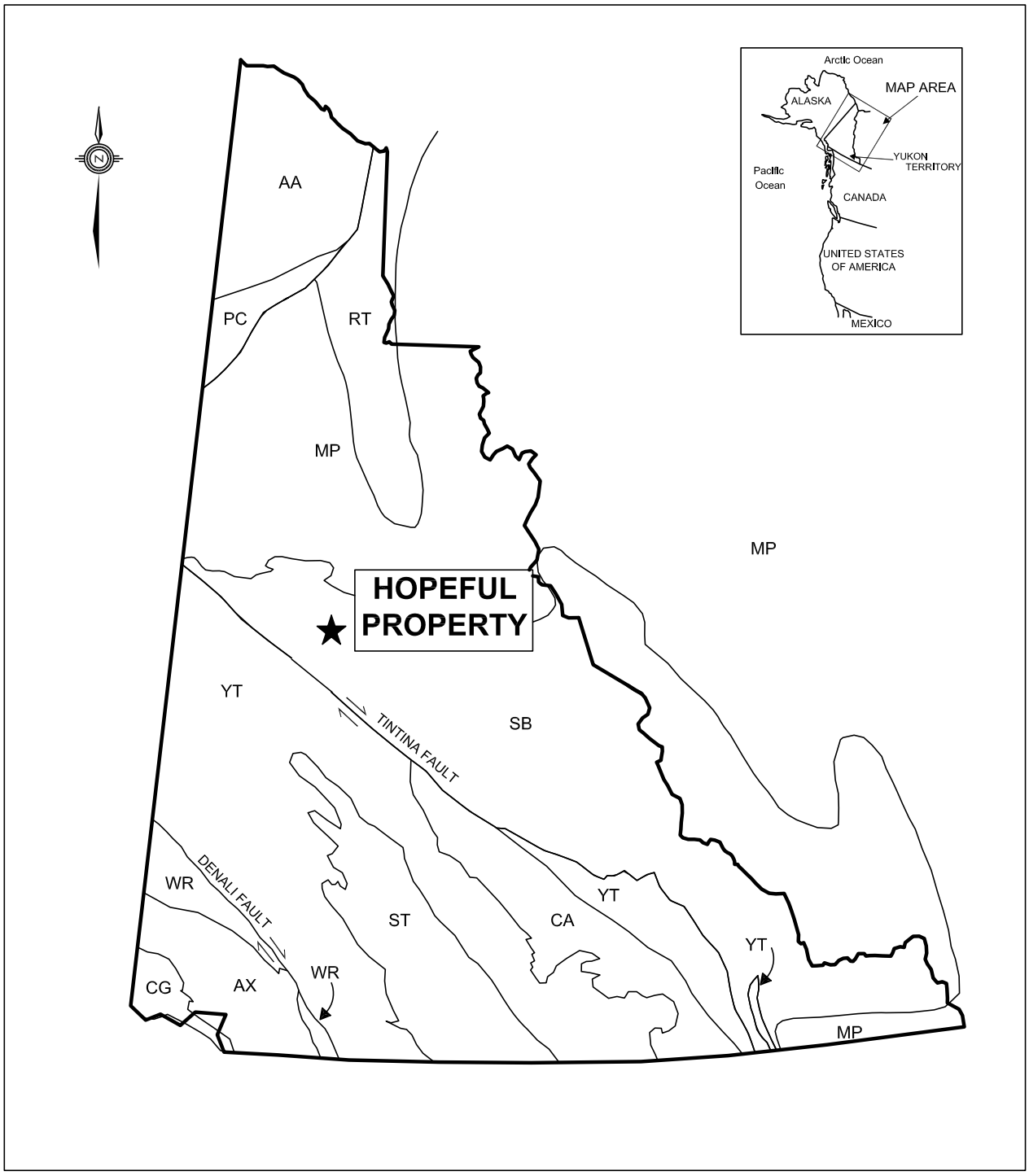
The Hopeful property is located within Selwyn Basin (Figure 4), a tectonic element comprised of deep water clastic rocks, chert and minor carbonate accumulated along the North American continental margin during Paleozoic time (Pigage, 2004).

The claims lie along the northern edge of the Mid-Cretaceous Lost Horses Stock. This stock is a more or less circular body about 8 km in diameter. It has a granitic core that grades outward to a rim of coarse, porphyritic syenite. This stock is one of many that make up an approximately 600 km long belt of plugs, stocks and dyke swarms that extends from MacMillan Pass in the east to Dawson City in the west, where it is offset by the Tintina Fault before continuing into the Fairbanks District of Alaska. Mineralization typically associated with these intrusions includes gold, silver, lead, zinc, tungsten, molybdenite, tin and antimony (Jago, 1984).

The Lost Horses Stock cuts Ordovician to Silurian quartzites, coarse clastics, black and grey cherts, siltstones and greywackes of the Road River Group (Bostock, 1964). These sediments were deposited in an elongate, north-northeast trending, fault-bounded basin, which has been broadly folded about an easterly trending axis (Jago, 1984).

PROPERTY GEOLOGY

The following geological descriptions are primarily based on mapping done in 1984 by Noranda (Jago, 1984). The Hopeful claims straddle the contact between Ordovician to Silurian metasediments of the Road River Group and the Mid-Cretaceous Lost Horses Stock (Figure 5).



ANCESTRAL NORTH AMERICA

- MP — Mackenzie Platform
- SB — Selwyn Basin
- RT — Richardson Trough

TERRANES
Displaced Continental Margin

- AA — Arctic Alaska
- CA — Cassiar
- PC — Porcupine

Pericratonic Terranes

- YT — Yukon-Tanana / Slide Mountain

ACCRETED TERRANES

- ST — Stikinia / Cache Creek
- AX — Alexander
- WR — Wrangellia
- CG — Chugach

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FIGURE 4

TECTONIC SETTING

HOPEFUL PROPERTY

0 100 200 km

FILE: P:\2007\Hopeful\Figures\Hopeful_F_3-REGIONAL.DWG

DATE: NOVEMBER 2007

385 000 mE
386 000 mE
387 000 mE
388 000 mE
389 000 mE
390 000 mE
391 000 mE
392 000 mE

7 099 000 mN
7 098 000 mN
7 097 000 mN

Property Boundary

Mattagami Zone

STRUCTURAL A BLOCK

STRUCTURAL B BLOCK

STRUCTURAL C BLOCK

Danra Zone

Gash Zone

Target C

Target A

Target B

True North
2°02'
Grid North
24°41'
Magnetic North
Annual Change 25.9'

Syenite

Metasediments
quartzites,coarse clasitcs, black and grey cherts, siltstones and greywackes

Fault

Contact

Structural Block

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FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY GEOLOGY
HOPEFUL PROPERTY

0km 1km

UTM ZONE 8, NAD 83

DRAWN / REVISED BY: J.LANE	PROJECT: HOPEFUL
FILE: ...2007/HOPEFUL/HOPEFUL-F_5-Property_Geology	DATE: NOVEMBER 2007

Road River Group

The Road River Group metasediments primarily consist of quartzite, black shale, chert pebble conglomerate and greywacke. Bedding within this sequence has a general strike of 100° and dips gently (025°) to the north. Towards the contact, bedding steepens to a dip of about 080° to the north.

The only part of the property that has been mapped in detail is in the vicinity of the Mattagami Zone, where the intrusion has thermally altered the metasediments to produce hornfels containing up to 8% secondary biotite. The metasediments in this area are subdivided into five units that are described in the following paragraphs.

Unit 1a lies closest to the Lost Horses Stock and at the lowest stratigraphic level in the sequence. It is composed of locally rusty, pale to dark grey, fine to coarse grained quartzite and greywacke. This unit outcrops within a 100 m wide band that can be traced along strike for several kilometres to the east and west. The quartzite locally grades into greywacke and is interbedded with coarse clastics, greywacke and sandy siltstone.

Unit 1b is a fractured chert with a composition and light grey colour similar to those chert clasts found in the coarse clastics of Unit 1a.

Unit 1c comprises carbonaceous black chert that is interbedded with carbonaceous black shale and cherty shale. The black chert occurs in layers about one metre thick. This unit is approximately 10 m thick.

Unit 1d is a 3 m thick layer of pale orange weathering, finely interlaminated white siliceous barite and chert.

Unit 1e is composed of finely bedded, fissile sandy siltstone to siliceous greywacke. It is up to 20 cm thick and is tightly folded near the intrusive contact.

The contact between the metasediments and the syenite is highly irregular and is offset by several sub-parallel, sometimes mineralized faults that strike between 060 and 090°. Zones of strong bleaching and sulphide mineralization are locally developed along faults structures at low to moderate angles to the contact.

Intrusive Rocks

The portion of the Lost Horses Stock that is covered by the property is dominantly syenite (Unit 2a); containing approximately 65% potassium feldspar, up to 20% hornblende and a maximum of 10% biotite. Potassium feldspar is always the dominant mineral and mainly occurs as megacrysts averaging three centimetres in length. Rusty weathering quartz-chlorite xenoliths are common close to the contact.

The southwest corner of the property overlies part of the stock's granitic core, which is composed of quartz-syenite and a range of tourmaline-bearing granites (Unit 2b). The rim and

core of the stock are distinguished primarily by variations in quartz content, with the proportion of quartz increasing towards the centre. Unit 2b contains potassium feldspar phenocrysts (up to three centimetres) and megacrysts (greater than four centimetres) that are typically strongly aligned.

Three types of dykes occur near the Mattagami Zone. The first is an approximately 30 m wide, 2 km long, white to red weathering quartz-feldspar porphyry dyke (Unit 3a) roughly parallels the stock's northern contact. It is composed of 15% anhedral, clear to brown quartz phenocrysts up to 8 mm in diameter and smaller feldspar phenocrysts in a fine-grained quartz and feldspar matrix. Tourmaline and pyrite are locally present in minor amounts.

The second is a series of granite dykes (Unit 3b) up to 1 m wide that are too small to plot at map scale. These dykes are medium grained and include 55% feldspar, 30% brown quartz, 3% biotite, 2% pyrrhotite, and 5% tourmaline as rosettes, needles and splays up to 2 cm across.

The third is a porphyritic biotite dyke (Unit 3c) with 10% biotite phenocrysts (up to 1.5 cm in diameter) in a grey to dark grey, fine grained matrix. Traces of chalcopyrite are found in this dyke.

MINERALIZATION

The Hopeful property hosts structurally controlled silver- and/or tin-rich tourmaline-quartz greisen veins and stratiform barite. The styles of mineralization and specific showings are described in the following sections.

Structurally Controlled Mineralization

The structurally controlled mineralization is dominantly fracture- or fault-related and occurs almost entirely within the Lost Horses Stock. Most of the fractures and faults follow two main trends: northwest and northeast, and all dip steeply. Based on mapping done in 1984, Noranda divided the structural elements into three blocks (Figure 5). The first of these blocks contains the Mattagami Zone and several narrow quartz-sulphide veins. The second hosts the Danra Zone and smaller tourmaline and/or quartz-sulphide veins. The third block is characterized by poorly constrained large-scale structures. Almost all of the known showings are located along ridge crests, where prospecting and mapping are most effective, but there is no reason to believe they will not extend onto the adjacent, talus- and till-covered hillsides and heavily vegetated valleys.

Structural Block A

This block is the westernmost of the three blocks. It hosts several mineralized sets of sub-parallel joints and fractures that are steeply inclined and strike between 60 and 80°. These sets contain narrow (up to 30 cm wide) discontinuously mineralized quartz-sulphide-kaolinite-limonite veins that are separated from one another by no more than two to three metres of barren host rock. Each of the veins is zoned from a sphalerite-bearing, quartz- and stibnite-rich core to banded arsenopyrite-rich margins. Silver values in these veins are usually low.

The Mattagami Zone, located on an alpine plateau within Structural Block A, occurs at the contact between the syenite and the metasediments. It is the most heavily explored area on the property. The zone consists of two steeply dipping, generally east-northeast trending vein faults, called VF1 and VF2, that cross-cut at a low angle (Figure 3). These are the only mineralized vein faults that are known to extend into the metasediments. VF1 contains up to three parallel, 060° trending, silver-lead-tin-antimony bearing, tourmaline-quartz ± clay ± sulphide greisen veins. Sulphides include arsenopyrite, cassiterite and boulangerite-jamesonite with traces of sphalerite, chalcopyrite and covellite. The veins range from several centimetres to 1.5 m in width. They are not well exposed at surface but in drill core they form discontinuously mineralized bands that collectively span widths of up to three metres. The veins are bordered by kaolinite altered halos that are five to ten times wider than the veins themselves.

VF2 is a 15 to 20 m wide, weakly mineralized fracture zone that strikes approximately 090°. It has been traced for 400 m into the metasediments by soil geochemistry and prospecting. Alteration of the metasediments is strong, with intense bleaching and erratic pockets of sulphides (including arsenopyrite, pyrite, and lead-silver arsenides).

Fourteen holes have been drilled at the Mattagami Zone, all of which intersected mineralization. The veins have been traced over a lateral distance of 260 m and to a depth of 90 m. The full strike length and depth of the zone have yet to be determined. Drill results suggest that grades increase beneath a 30 to 40 m thick layer of surface weathering (Hogg, 1987). A cross-section through the Mattagami Zone is shown in Figure 6.

The following table summarizes the best intersection(s) in each hole (refer to Figure 3 for drill hole locations):

Hole #	Interval Depth (m)		Length (m)	Silver Grade (g/t)
	From	To		
DDH84-1	NR*	NR	2.6	81.60
	NR	NR	1.3	115.89
DDH84-2	NR	NR	7.5	157.72
	NR	NR	1.1	267.43
DDH84-3	NR	NR	5.3	146.06
DDH84-4	NR	NR	0.9	98.74
DDH84-5	NR	NR	4.5	28.80
DDH84-6	NR	NR	NR	NR
DDH84-7	NR	NR	NR	NR
DDH84-8	NR	NR	2.5	18.51
DDH84-9	NR	NR	8.1	12.68
DDH84-10	NR	NR	NR	NR
DDH88-1	105.7	108.9	3.2	3025.74
DDH88-2	144.8	147.1	2.3	252.00
DDH88-3	117.2	117.6	0.4	273.60
DDH88-4	151.1	154.7	3.6	85.37

*NR = Not Reported

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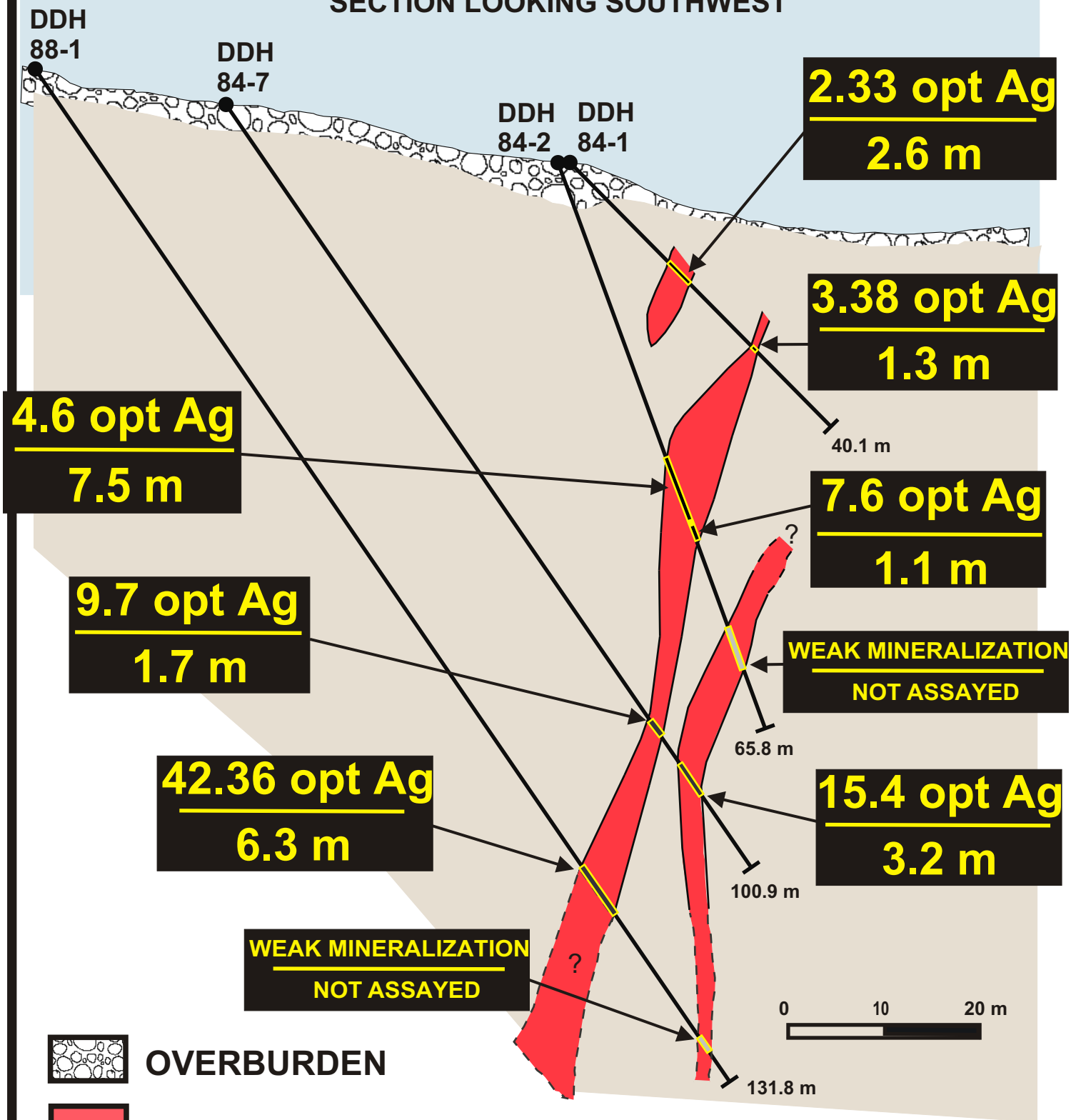
FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MATTAGAMI ZONE CROSS-SECTION

SECTION LOOKING SOUTHWEST



Prospecting around the Mattagami Zone in 2007 led to the collection of four rock samples, which returned values up to 667 ppm silver, 6.65% lead, 800 ppm tin, and greater than 10,000 ppm arsenic and antimony.

Structural Block B

This block lies about 200 m southeast of Block A. It comprises dilatent zones and joints that are commonly less than 70 to 80 m long. These structures generally have low precious metal contents, with the exception of the Gash and Danra zones.

The Gash Zone was not explored in 2007, but Noranda reports it as an intermittently spectacular tourmaline-quartz-clay-sulphide vein that occurs within a curvilinear foliation zone that lies two kilometres to the southwest of the Mattagami Zone. The vein and surrounding alteration halo are variable in width, reaching a maximum measured vein width of one metre. Sulphides consist primarily of arsenopyrite, pyrite and cassiterite, while alteration dominantly comprises kaolination and limonitization near the vein grading outward to biotization in the host syenite. The full length of the Gash Zone has not been determined due to talus and vegetative cover. The best results obtained in 1984 include a chip sample that graded 284.9 g/t silver, 3.25% lead, 1100 ppm tin, greater than 1000 ppm arsenic, 600 ppm antimony and 161 ppm copper over 1.2 m, and a grab sample that returned 2096 g/t silver, 14.90% lead, 1800 ppm tin, greater than 1000 ppm arsenic, 1800 ppm antimony and 80 ppm copper.

The Danra Zone is located approximately one kilometre southwest of the Mattagami Zone. It was discovered in 2007, when several rock samples were collected from talus at the base of a large cliff. The best samples returned values ranging between 92.5 and 501 ppm silver, 7,860 and 18,700 ppm lead, 439 and 1,200 ppm tin, >10,000 ppm arsenic, and 454 and1,200 ppm antimony. Noranda mapped two contour parallel, quartz-sulphide ± tourmaline veins less than 100 m uphill to the east of the area where these samples were collected. These veins may be the source or may parallel a buried structure that is the source of the mineralized talus.

Structural Block C

This structural block is the largest and most easterly block, and lies mostly on open ground to the south of the claims. It has received little attention compared to the other two. It consists of several north-northeast striking, large-scale foliation zones that contain float blocks of tourmaline- or quartz-vein and strongly altered syenite. According to Noranda, there are at least three targets in this block that warrant further prospecting (Figure 5), based on soil geochemical anomalies and minor prospecting.

Target A is in the vicinity of a patch of gossanous soil at the contact between the intrusive and the metasediments where narrow veinlets of pyrite and tourmaline with muscovite and/or sericite were found. An historical sample collected from the gossanous soil returned moderately anomalous values for copper, lead, zinc, silver and antimony, and was highly elevated in arsenic.

Target B is a 10 to 15 m wide structure with abundant kaolinized intrusive and quartz-tourmaline-sulphide vein float. Silver soil geochemical values up to 11 ppm were collected from this target.

Target C is a 10 to 20 m wide structure accompanied by a dark green soil horizon, presumably from the weathering of tourmaline. Kaolinized intrusive blocks and weathered tourmaline vein were found along this structure.

Stratiform Barite Mineralization

Noranda discovered a horizon of light orange weathering, white, finely interlaminated barite and chert up to three metres thick. Very little work was done to define this showing and only a few samples were collected. No strike length was established for the barite, but soil geochemical sampling outlined a strong 500 m long Ba-Ag-Zn-Cu anomaly. A weak to moderate VLF-EM conductor roughly coincides with the geochemical anomaly. Noranda reports that although the barite has a high specific gravity, it is contaminated with elements that make it unsuitable for use in drilling mud.

2007 Rock Sample Locations and Analytical Techniques

In 2007, several rock samples were picked up across the property. Sample locations are shown on Figure 7. Most samples from areas other than the Mattagami and Danra zones returned generally low values.

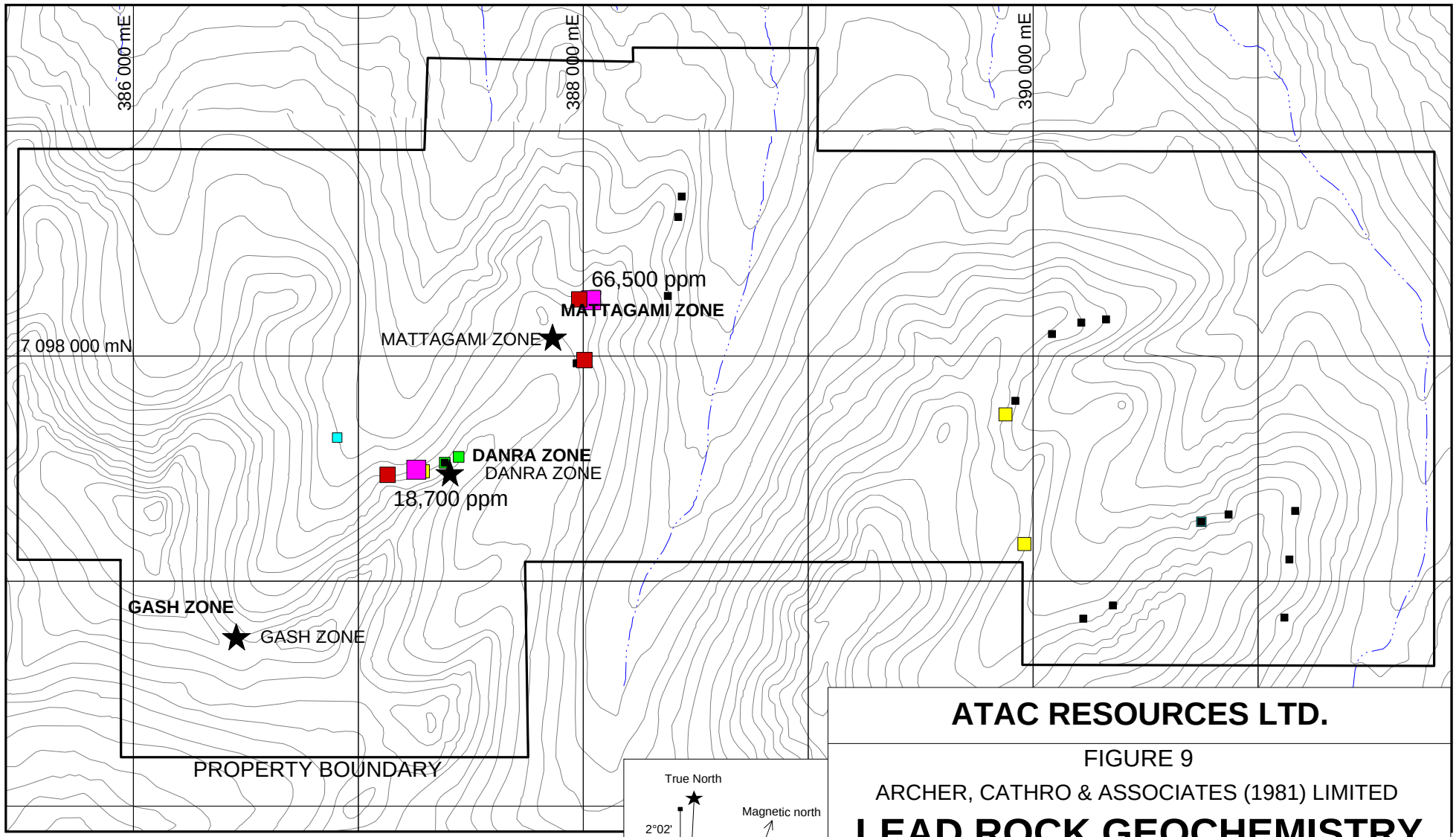
All rock samples were sent to ALS Chemex in North Vancouver where they were crushed and dissolved in a four acid solution and then analyzed for 47 elements using a combination of inductively coupled plasma-mass spectroscopy and inductively coupled plasma-atomic emission spectroscopy techniques (ME-MS61). Certificates of analysis are in Appendix II. Results for silver, lead, tin, arsenic and antimony are shown in Figures 8, 9, 10, 11 and 12, respectively.

SOIL GEOCHEMISTRY

In 1984, Noranda took 263 soil samples at 25 m intervals on lines spaced 100 m apart over a 1000 by 400 m grid that covers the Mattagami Zone. These samples were analyzed for silver, arsenic, lead, copper, and zinc. The analyses were done at Noranda's laboratory in Vancouver. No details were given regarding the analytical techniques. The results outline the two vein faults that comprise the Mattagami Zone (Figure 3). Silver and arsenic over these structures are moderately to highly anomalous, with values ranging from 5 to 87 ppm over backgrounds of 1 ppm for silver and 500 to 3200 ppm over a background of 100 ppm for arsenic.

Noranda also outlined a 500 m long barium, silver, zinc and copper anomaly within the metasediments in the vicinity of the barite horizon.

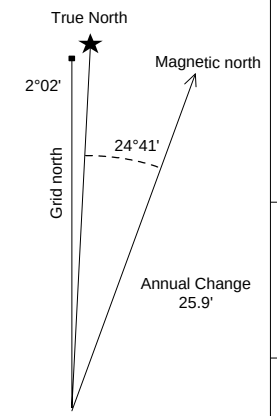
In 2007, 326 soil samples were taken at 50 to 100 m spacings on a nearly continuous 6 km long contour line that extends the length of the property. The samples were sent to ALS Chemex in North Vancouver where they were dried, screened to –180 microns, dissolved in a four acid



Pb (ppm)

≥10,000	< 66,500	(2)
≥2,000	< 10,000	(3)
≥500	< 2,000	(3)
≥200	< 500	(2)
≥100	< 200	(2)
0	< 100	(16)

★ Zones referred to in text



ATAC RESOURCES LTD.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

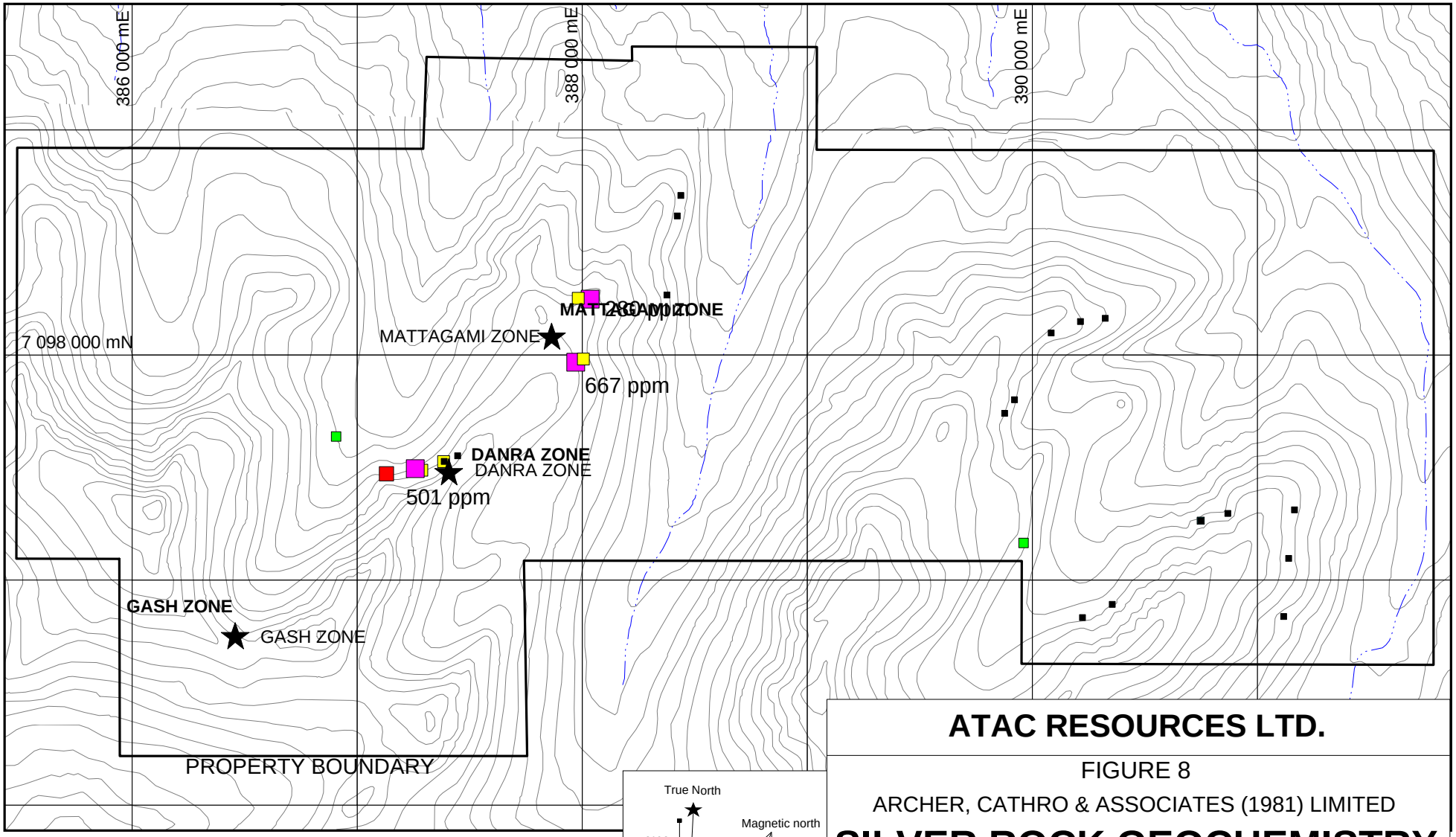
LEAD ROCK GEOCHEMISTRY

HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14 & 116A/03

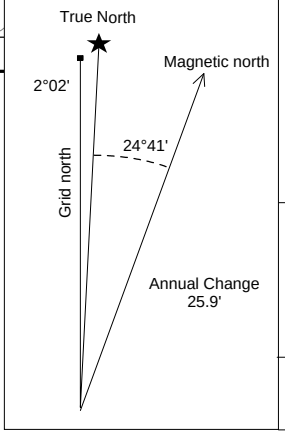
FILE: P\2007\Hopeful\Hopeful_Pb_rock.WOR DATE: NOVEMBER 2007



Ag (ppm)

≥100	< 667	(3)
≥50	< 100	(1)
≥10	< 50	(4)
≥5	< 10	(2)
≥2	< 5	(1)
0	< 2	(17)

★ Zone referred to in text



ATAC RESOURCES LTD.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

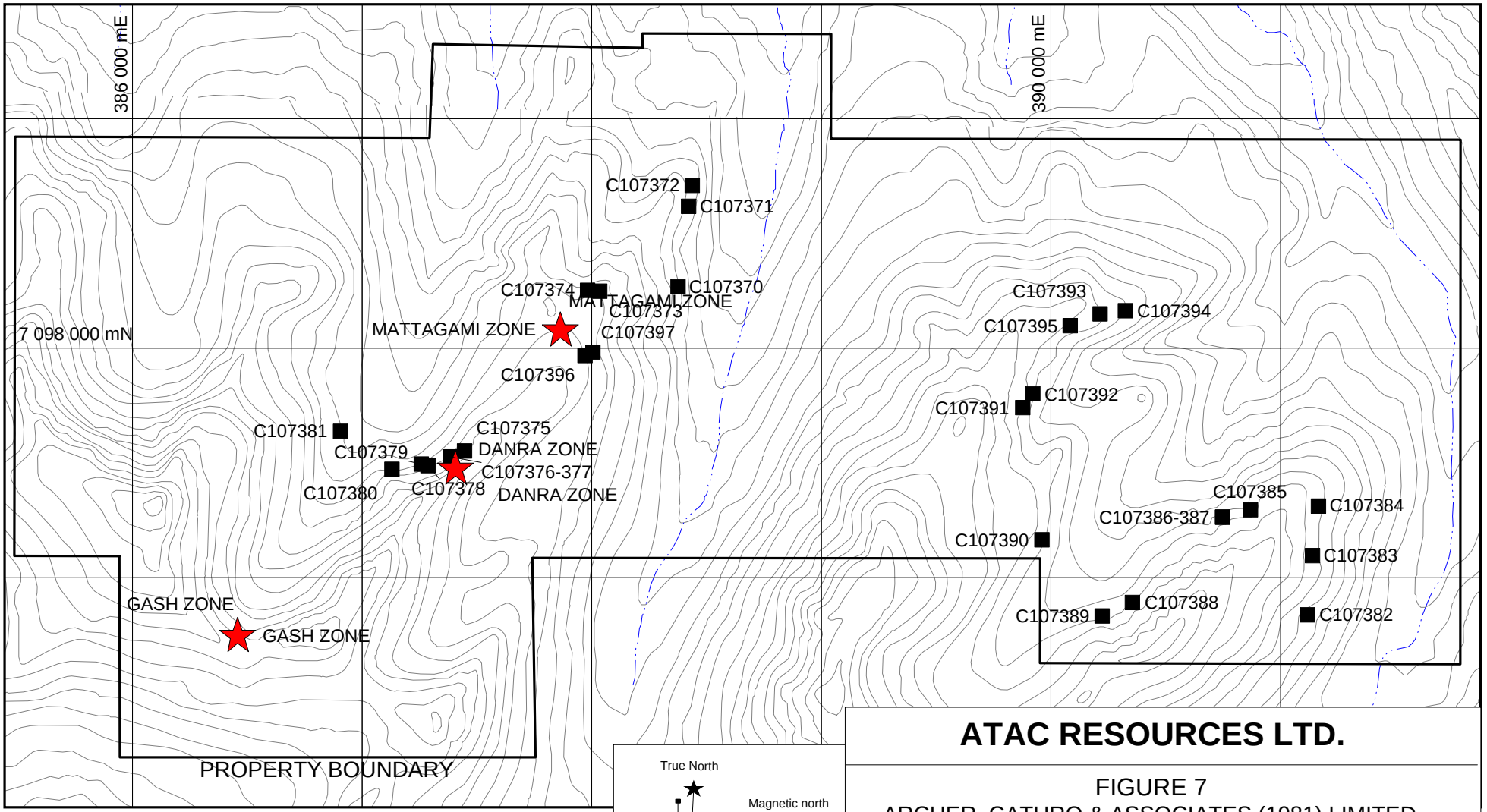
SILVER ROCK GEOCHEMISTRY

HOPEFUL PROPERTY

0 1,000 m

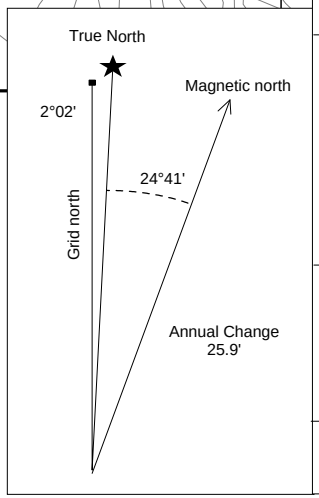
UTM ZONE 8, NAD 83, 115P/14 & 116A/03

FILE: P\2007\Hopeful\Hopeful_Ag_rock.WOR DATE: NOVEMBER 2007



Zone referred to in text

2007 Rock sample



ATAC RESOURCES LTD.

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ROCK SAMPLE LOCATIONS

HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14 & 116A/03

FILE: P\2007\Hopeful\Hopeful_rock_locations.WOR DATE: NOV 2007

387 000 mE

389 000 mE

391 000 mE

7 099 000 mN

PROPERTY BOUNDARY

7 097 000 mN

MATTAGAMI ZONE

MATTAGAMI ZONE

DANRA ZONE

DANRA ZONE

GASH ZONE

GASH ZONE

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

Zones referred to in text

2007 Soil sample

ATAC RESOURCES LTD.

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SOIL SAMPLE LOCATIONS

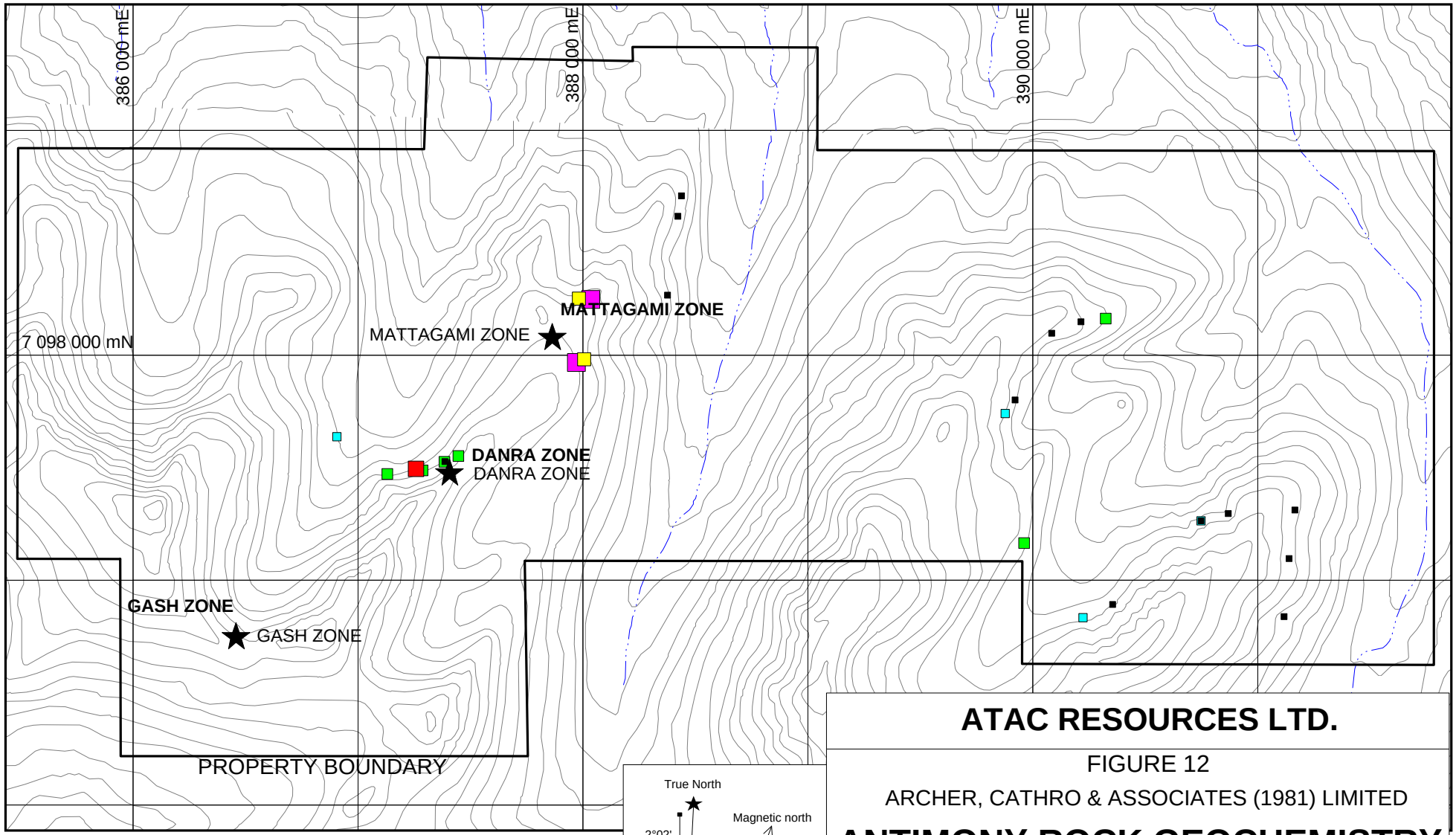
HOPEFUL PROPERTY

0 500 m 100

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_soil_locations.WOR

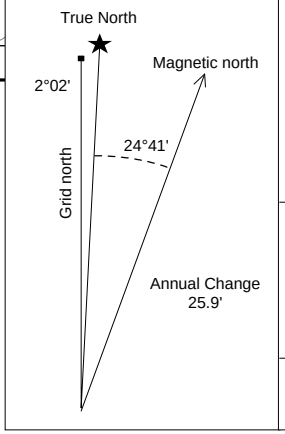
DATE: NOV 200



Sb (ppm)

≥10,000			(2)
≥1,000	<	10,000	(1)
≥500	<	1,000	(2)
≥100	<	500	(6)
≥50	<	100	(4)
0	<	50	(13)

★ Zones referred to in text



ATAC RESOURCES LTD.

FIGURE 12

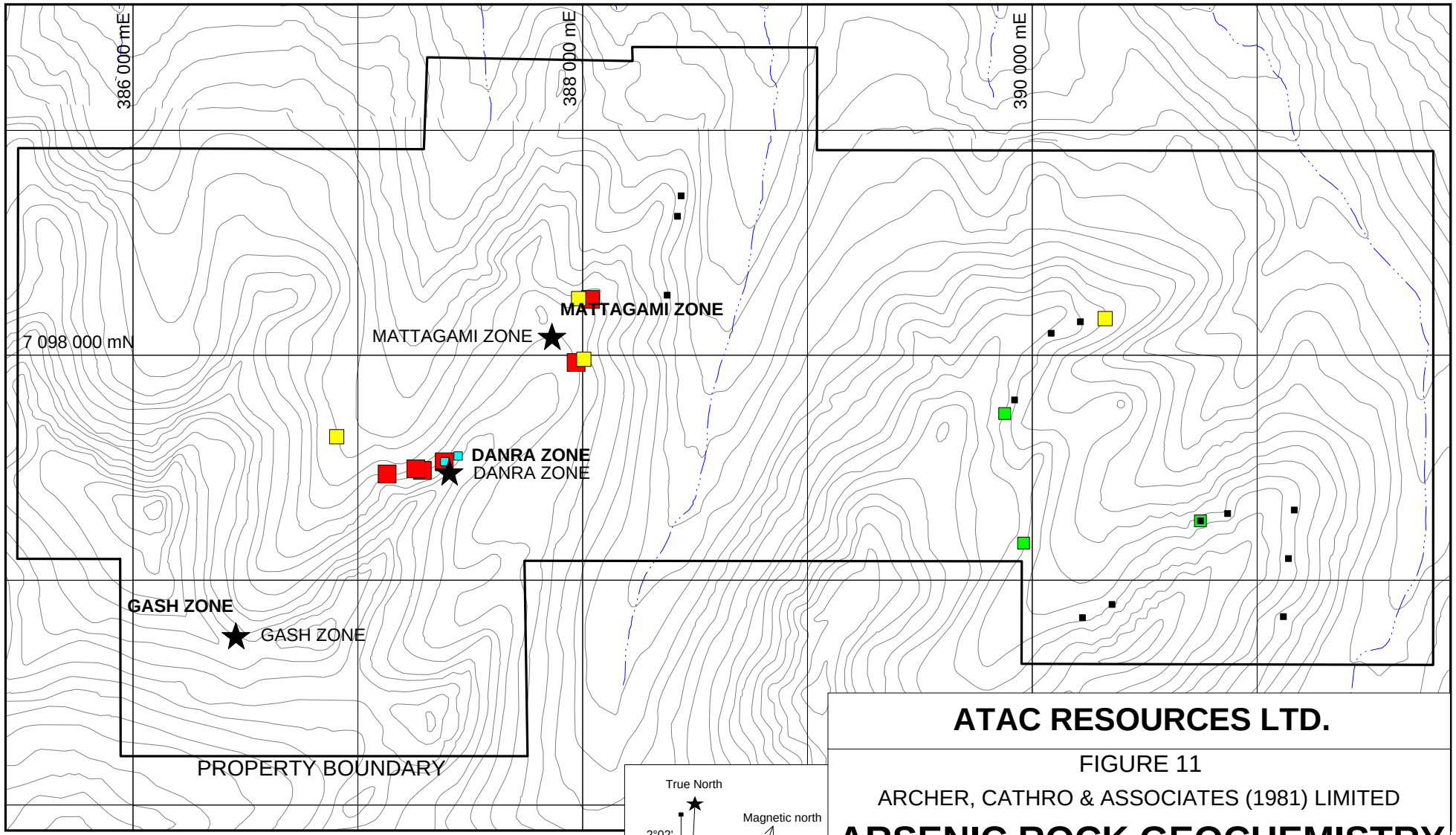
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ANTIMONY ROCK GEOCHEMISTRY
HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14 & 116A/03

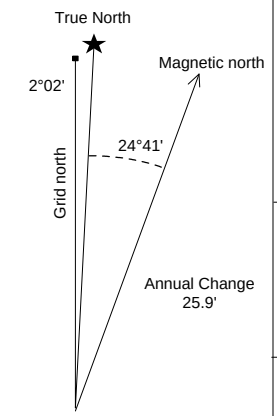
FILE: P\2007\Hopeful\Hopeful_Sb_rock.WOR DATE: NOVEMBER 2007



As (ppm)

≥10,000			(6)
≥1,000	<	10,000	(4)
≥200	<	1,000	(3)
≥100	<	200	(2)
0	<	100	(13)

★ Zones referred to in text



ATAC RESOURCES LTD.

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

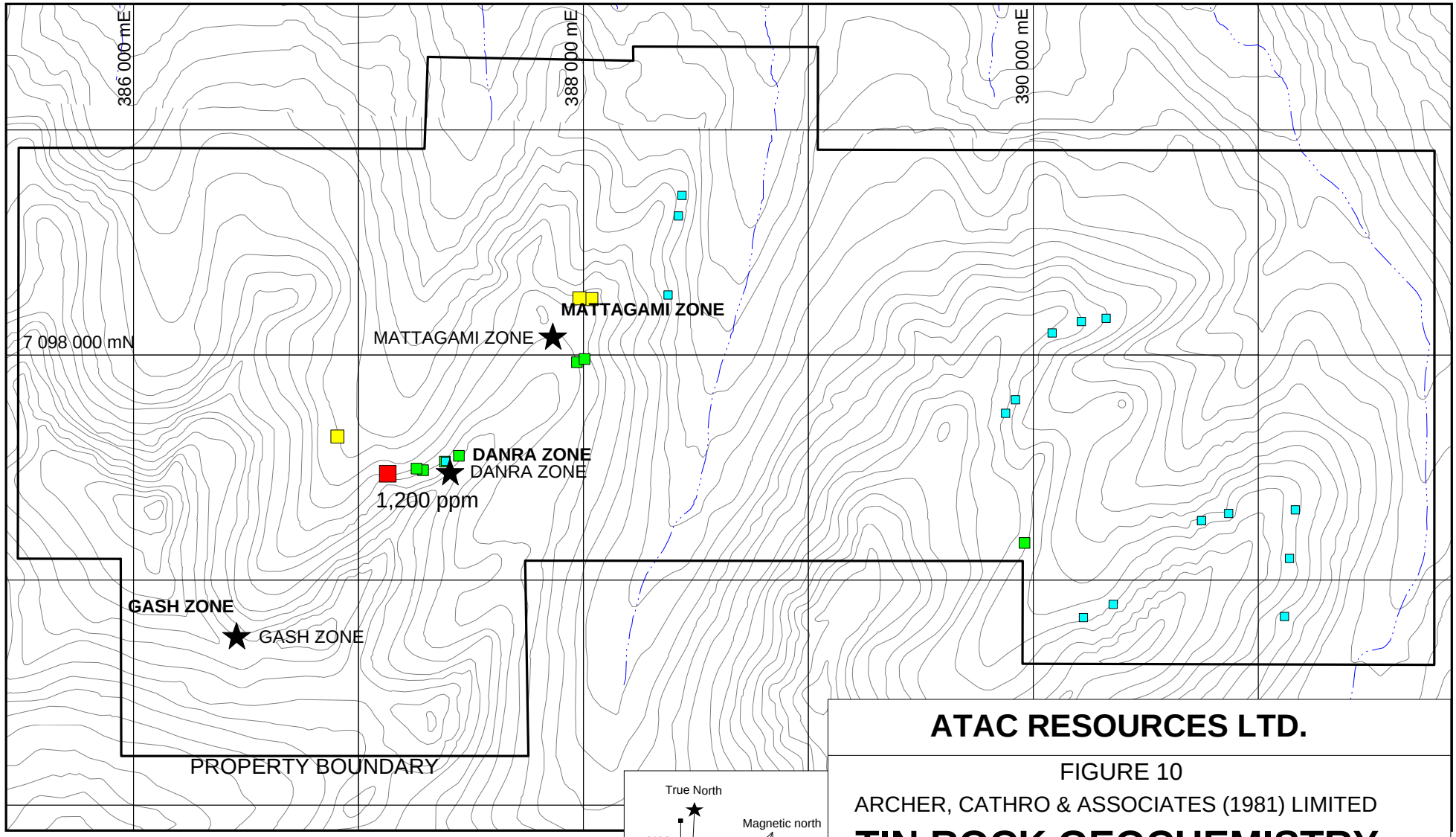
ARSENIC ROCK GEOCHEMISTRY

HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14 & 116A/03

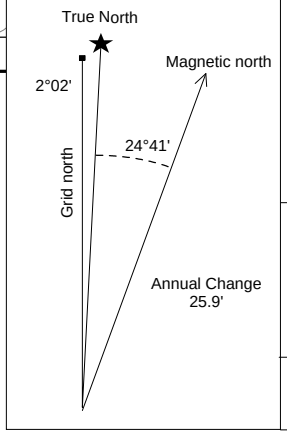
FILE: P\2007\Hopeful\Hopeful_As_rock.WOR DATE: NOVEMBER 2007



Sn (ppm)

≥1,000	< 1,200	(1)
≥500	< 1,000	(3)
≥100	< 500	(7)
0	< 100	(17)

★ Zones referred to in text



ATAC RESOURCES LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TIN ROCK GEOCHEMISTRY

HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14 & 116A/03

FILE: P\2007\Hopeful\Hopeful_Sn_rock.WOR DATE: NOVEMBER 2007

solution and then analyzed for 47 elements using a combination of inductively coupled plasma-mass spectroscopy and inductively coupled plasma atomic-emission spectroscopy (ME-MS61). Certificates of Analysis are in Appendix III. Sample locations are shown on Figure 13, while results for silver, arsenic, tin, zinc, antimony, lead, and copper are shown on Figures 14 through 20, respectively.

The 2007 soil samples were mainly meant to establish backgrounds and to explore for new zones, rather than to define known areas of mineralization. Accordingly, they yielded mostly low values with scattered moderate to high values for key indicator elements, including up to 3.54 ppm silver, 1930 ppm arsenic, 23.5 ppm tin, 1660 ppm zinc, and greater than 1000 ppm antimony. Only a few moderately anomalous values were returned for lead (up to 134 ppm) and copper (up to 165 ppm). Samples that produced strongly anomalous arsenic values generally returned elevated antimony values, but they are not consistently associated with elevated silver values. High antimony values, however, almost always accompany elevated silver values.

Weakly to moderately elevated silver values (defined as greater than 1 ppm) are spread across the property, but are concentrated in and around the Mattagami Zone. Anomalous tin, antimony and arsenic values are fairly localized to the Mattagami Zone and immediately adjacent areas.

GEOPHYSICAL SURVEYS

Helicopter-borne VTEM and magnetic surveys were conducted on August 30, 2007 by Geotech Ltd. of Aurora, Ontario using an Astar B3 helicopter operated by TRK Helicopters. Survey equipment and techniques are described in a report contained in Appendix IV. Electromagnetic profiles for time gates 0.234-7.828 ms are presented on Figures 21 and 22, while total field magnetic results are illustrated on Figure 23. A CD containing digital survey data is also attached.

The geophysical data has not yet been fully interpreted. However, a band of elevated magnetism that lies within the outer shell of the intrusion approximately coincides with the syenite phase while lower magnetism closer to the core overlies the granite phase. The contact between the intrusion and the metasediments is marked, in general, by a magnetic low. This pattern is interrupted in the vicinity of the Mattagami Zone, where magnetism is higher than is commonly observed elsewhere along the contact. Within the metasediments, there is a strong gradient in magnetism between the northwest and southeast portions of the property. The northwest end is highly magnetic, while the southeast is much less magnetic. It is unclear as to what is causing this difference; however, the increased magnetism in the northwest could be due to stronger hornfelsing within the metasediments.

The electromagnetic response was very subdued over the intrusion and none of the known fault zones were picked up as conductors. A broad, low-amplitude conductor over the metasediments in the northwest part of the property is consistent with increased hornfelsing.

386 000 mE

388 000 mE

390 000 mE

392 000 mE

7 099 000 mN

7 097 000 mN

PROPERTY BOUNDARY

MATTAGAMI ZONE

MATTAGAMI ZONE

DANRA ZONE

DANRA ZONE

GASH ZONE

GASH ZONE

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

Sb (ppm)

≥1,000			(1)
≥100	<	1,000	(2)
≥50	<	100	(6)
≥20	<	50	(24)
≥10	<	20	(50)
0	<	10	(233)

Zones referred to in text

ATAC RESOURCES LTD.

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ANTIMONY SOIL GEOCHEMISTRY
HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_20k_Sb_soil.WOR

DATE: NOV 2007

386 000 mE

388 000 mE

390 000 mE

392 000 mE

7 099 000 mN

7 097 000 mN

PROPERTY BOUNDARY

MATTAGAMI ZONE

MATTAGAMI ZONE

DANRA ZONE

DANRA ZONE

GASH ZONE

GASH ZONE

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

Zn (ppm)

≥1,000	<	1,660	(3)
≥500	<	1,000	(2)
≥200	<	500	(21)
≥100	<	200	(142)
≥50	<	100	(137)
0	<	50	(11)

Zones referred to in text

ATAC RESOURCES LTD.

FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC SOIL GEOCHEMISTRY
HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_20k_Zn_soil.WOR

DATE: NOV 2007

386 000 mE

388 000 mE

390 000 mE

392 000 mE

7 099 000 mN

PROPERTY BOUNDARY

MATTAGAMI ZONE

MATTAGAMI ZONE

DANRA ZONE

DANRA ZONE

7 097 000 mN

GASH ZONE

GASH ZONE

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

Sn (ppm)

- ≥20 < 23.5 (4)
- ≥10 < 20 (14)
- ≥5 < 10 (47)
- ≥2 < 5 (131)
- 0 < 2 (120)

Zones referred to in text

ATAC RESOURCES LTD.

FIGURE16

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TIN SOIL GEOCHEMISTRY
HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_20k_Sn_soil.WOR

DATE: NOV 2007

386 000 mE

388 000 mE

390 000 mE

392 000 mE

7 099 000 mN

PROPERTY BOUNDARY

MATTAGAMI ZONE

MATTAGAMI ZONE

DANRA ZONE

DANRA ZONE

7 097 000 mN

GASH ZONE

GASH ZONE

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

As (ppm)

≥1,000	<	1,930	(3)
≥500	<	1000	(6)
≥200	<	500	(15)
≥100	<	200	(27)
≥50	<	100	(26)
0	<	50	(239)

Zones referred to in text

ATAC RESOURCES LTD.

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC SOIL GEOCHEMISTRY
HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_20k_As_soil.WOR

DATE: NOV 2007

386 000 mE

388 000 mE

390 000 mE

392 000 mE

7 099 000 mN

7 097 000 mN

PROPERTY BOUNDARY

MATTAGAMI ZONE

MATTAGAMI ZONE

DANRA ZONE

DANRA ZONE

GASH ZONE

GASH ZONE

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

Ag (ppm)

≥2.0 < 3.55 (5)
≥1.0 < 2.0 (17)
≥0.5 < 1.0 (42)
≥0.2 < 0.5 (156)
0 < 0.2 (96)

Zones referred to in text

ATAC RESOURCES LTD.

FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER SOIL GEOCHEMISTRY
HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_20k_Ag_soil.WOR

DATE: NOV 2007

386 000 mE

388 000 mE

390 000 mE

T15910:71 N>

T15920:72 N>

T15930:73 N>

7 099 000 mN

7 097 000 mN

METASEDIMENTS
SYENITE

MATTAGAMI ZONE

DANRA ZONE

GASH ZONE

PROPERTY BOUNDARY

57850
57810
57786
57770
57756
57740
57730
57720
57714
57708
57702
57696
57690
57682
57674
57666
57660
57652
57646
57640
57632
57626
57620
57616
57610
57604
57600
57596
57592
57588
57584
57576
57570
57562
57556
57546
57540
57532

Magnetic field
(nT)

Geological contact

Fault or fracture

Flown and processed by Geotech Ltd.
30 Industrial Parkway South
Aurora, Ontario, Canada L4G 3W2
www.geotechairborne.com

True North
Magnetic north
2°02'
24°41'
Grid north
Annual Change
25.9'

ATAC RESOURCES LTD.

FIGURE 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOTECH VTEM SYSTEM
TOTAL MAGNETIC FIELD MAP

HOPEFUL PROPERTY

0 0.5 1 km

UTM ZONE 8W, NAD 83, 115P/14

FILE: ...2007\Hopeful\Figures\Hopeful-F_21.WOR

DATE: NOVEMBER 2007

386 000 mE

388 000 mE

390 000 mE

7 099 000 mN

7 097 000 mN

T15910:71 N>

T15920:72 N>

T15930:73 N>

METASEDIMENTS

SYENITE

Profiles scale 1 mm = 0.1 pV/A/m^4
(Linear between +/-0.4 pV/A/m^4
logarithmic above 0.4 pV/A/m^4)

0.234 ms
0.281 ms
0.339 ms
0.406 ms
0.484 ms
0.573 ms
0.682 ms
0.818 ms
0.974 ms
1.151 ms
1.370 ms
1.641 ms
1.953 ms
2.307 ms
2.745 ms
3.286 ms
3.911 ms
4.620 ms
5.495 ms
6.578 ms
7.828 ms

Geological contact

Fault or fracture

Flown and processed by Geotech Ltd.
30 Industrial Parkway South
Aurora, Ontario, Canada L4G 3W2
www.geotechairborne.com

True North
Magnetic north
2°02'
24°41'
Grid north
Annual Change
25.9'

ATAC RESOURCES LTD.

FIGURE 22
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOTECH VTEM SYSTEM
dB/dt PROFILES
TIME GATES 0.234-7.828 ms

HOPEFUL PROPERTY

0 0.5 1 km
UTM ZONE 8W, NAD 83, 115P/14

FILE: ...2007\Hopeful\Figures\Hopeful-F_22.WOR

DATE: NOVEMBER 2007

386 000 mE

388 000 mE

390 000 mE

T15910:71 N>

T15920:72 N>

T15930:73 N>

7 099 000 mN

7 097 000 mN

METASEDIMENTS
SYENITE

MATTAGAMI ZONE

DANRA ZONE

GASH ZONE

PROPERTY BOUNDARY

Profiles scale 1 mm = 0.1 (pV*ms)/A/m^4
(Linear between +/-0.4 (pV*ms)/A/m^4
logarithmic above 0.4 (pV*ms)/A/m^4)

- 0.234 ms (B-field)
- 0.281 ms (B-field)
- 0.339 ms (B-field)
- 0.406 ms (B-field)
- 0.484 ms (B-field)
- 0.573 ms (B-field)
- 0.682 ms (B-field)
- 0.818 ms (B-field)
- 0.974 ms (B-field)
- 1.151 ms (B-field)
- 1.370 ms (B-field)
- 1.641 ms (B-field)
- 1.953 ms (B-field)
- 2.307 ms (B-field)
- 2.745 ms (B-field)
- 3.286 ms (B-field)
- 3.911 ms (B-field)
- 4.620 ms (B-field)
- 5.495 ms (B-field)
- 6.578 ms (B-field)
- 7.828 ms (B-field)

Geological contact

Fault or fracture

Flown and processed by Geotech Ltd.
30 Industrial Parkway South
Aurora, Ontario, Canada L4G 3W2
www.geotechairborne.com

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

ATAC RESOURCES LTD.

FIGURE 21

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOTECH VTEM SYSTEM
B-FIELD PROFILES
TIME GATES 0.234-7.828 ms

HOPEFUL PROPERTY

0 0.5 1 km

UTM ZONE 8W, NAD 83, 115P/14

FILE: ...2007\Hopeful\Figures\Hopeful-F_21.WOR

DATE: NOVEMBER 2007

386 000 mE

388 000 mE

390 000 mE

392 000 mE

7 099 000 mN

PROPERTY BOUNDARY

MATTAGAMI ZONE

MATTAGAMI ZONE

DANRA ZONE

DANRA ZONE

7 097 000 mN

GASH ZONE

GASH ZONE

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

Cu (ppm)

- ≥150 < 165 (2)
- ≥100 < 150 (4)
- ≥50 < 100 (26)
- ≥20 < 50 (159)
- 0 < 20 (125)

★ Zones referred to in text

ATAC RESOURCES LTD.

FIGURE 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER SOIL GEOCHEMISTRY HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_20k_Cu_soil.WOR

DATE: NOV 2007

386 000 mE

388 000 mE

390 000 mE

392 000 mE

7 099 000 mN

PROPERTY BOUNDARY

MATTAGAMI ZONE

MATTAGAMI ZONE

DANRA ZONE

DANRA ZONE

7 097 000 mN

GASH ZONE

GASH ZONE

True North

Magnetic north

2°02'

24°41'

Grid north

Annual Change
25.9'

Pb (ppm)

≥100			(4)
≥50	<	100	(16)
≥20	<	50	(144)
≥10	<	20	(152)
0	<	10	(0)

Zones referred to in text

ATAC RESOURCES LTD.

FIGURE 19

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD SOIL GEOCHEMISTRY
HOPEFUL PROPERTY

0 1,000 m

UTM ZONE 8, NAD 83, 115P/14

FILE: P:\2007\Hopeful\Figures\Hopeful_20k_Pb_soil.WOR

DATE: NOV 2007

DISCUSSION AND CONCLUSIONS

The Hopeful property hosts a silver-lead-tin quartz-tourmaline greisen vein deposit (the Mattagami Zone), which has been traced along strike for 260 m and to a depth of 90 m. It remains open to extension at depth and on both ends. Previous workers have suggested that surface leaching of the deposit may have occurred because grades generally increase with depth, from an average of 120 g/t silver in holes near surface to an average of 960 g/t in deep holes (Hogg, 1987). However, the percentages of lead and tin also tend to increase with depth, which suggests that the variation in silver grade may be related to factors that controlled primary deposition. Other mineralized showings and soil anomalies on the property have yet to be explored in detail and none has been drill tested.

The strong magnetic and coincident electromagnetic anomaly in the northwest part of the property likely reflects hornfelsing in the Road River Group. There is a remote possibility that these anomalies are due to skarnification of limestone belonging to the Rabbitkettle Formation, which is inferred to underlie the Road River Group. If the Rabbitkettle Formation rocks are skarnified near their contact with the pluton, they could host copper-gold mineralization similar to that discovered by Dynamite Resources Ltd. in 2007 at the Mike Lake property 40 km to the northwest. The discovery hole at Mike Lake reportedly assayed 0.61% copper and 1.38 g/t gold over 89.31 m (W. Wengzynowski, pers. comm.).

The Hopeful property lies within one of the richest parts of the Tintina Gold Belt. The Keno Hill silver district, which lies approximately 80 km to the east, is the second largest historical silver producer in Canada. The veins in this district yielded a total of 6,657,235 kg (214,035,599 million ounces) of silver (Cathro, 2006). The formerly gold-producing Brewery Creek mine lies 35 km to the west of the property and the Mike Lake property is situated to the northwest.

Further work on the Hopeful property is definitely warranted and should consist primarily of diamond drilling to fully delineate the extent and grade of the Mattagami Zone and to evaluate the most prospective of the other structural zones. Grid and/or contour soil sampling should also be done over anomalous areas outlined by previous reconnaissance-scale work. Finally, stratigraphic mapping should be completed north of the pluton to determine whether or not there is a possibility that gold- and/or copper-bearing skarns could be developed at relatively shallow depths.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sarah Eaton, B.Sc. Geology

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Statement of Expenditures
Hope 1-4 and Full 1-60 Mineral Claims
November 27, 2007

Contract VTEM Survey

Geotech Ltd.	$44,871.00

Geotech Ltd.

30 Industrial Parkway South, Aurora ON L4G 3W2

BILL TO:
Archer, Cathro & Associates (1981) Limite 1016-510 West Hastings Street Vancouver, BC Canada V6B 1L8

DATE:	INVOICE:
10/12/2007	991107

HOPEFUL - $42 331.13 + $2539.87
= $44,871.00

TERMS:	Project
Due on receipt	7067

Description	Amount
Helicopter-borne time domain electromagnetic geophysical survey with VTEM system Interm Billing - 90% of the estimated total charge plus any additional charges, including but not limited to additional line km, standby days, plus GST is payable completion of flying.	665,651.00
ontract (Yukon and northern BC.)	
Estimated 5690 line km @ $70.00 — $398,300.00 29 blocks @ $2,000.00 per block — $58,000.00 65 days @ $6,000.00 per day — $390,000.00 Helicopter time charges for 227.3 hours @ $1,800.00 per hour — $409,140.00 Helicopter mob/demob — $10,000.00 Crew and equipment mob/demob — $7,000.00 Minimum survey charge — $1,272,440.00	
90% of $1,278,440.00 — $1,145,196.00	
Less Previoius Billing Invoice 991034 — ($289,040.00) Invoice 991078 — ($190,505.00)	
Total Billable Amount — $665,651.00	

Business Number: 110859469

Subtotal	Can$665,651.00
GST	Can$39,939.06
TOTAL	Can$705,590.06

Please Remit By Bank Transfer To:
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Tel: 905-841-5004 Fax: 905-841-0611 email: info@geotechairborne.com

APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Sarah Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2007 with a B.Sc. in Honours Geological Sciences.

2. From 2002 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Northwest Territories.

3. I have personally participated in the field work reported herein and have interpreted all data resulting from this work.

Sarah Eaton, B.Sc. (Hon.) Geology

APPENDIX II

CERTIFICATES OF ANALYSIS

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **ATAC RESOURCES LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

CERTIFICATE VA07103563

Project: HOPEFULL

P.O. No.:

This report is for 4 Rock samples submitted to our lab in Vancouver, BC, Canada on 13-SEP-2007.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
Sn-AA82	High Grade Sn

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: Lawrence Ng

Lawrence Ng, Laboratory Manager - Vancouv

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VANCOUVER BC V6B 1L8

Project: HOPEFULL

Finalized Date: 20-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07103563

Sample Description	Method	Sn-AA82
	Analyte	Sn
	Units	%
	LOR	0.01
C107374		0.08
C107375		0.01
C107380		0.12
C107381		0.09

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To: **ATAC RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 10-SEP-2007
Account: RCM

CERTIFICATE VA07091622

Project: HOPEFULL

P.O. No.:

This report is for 158 Soil samples submitted to our lab in Vancouver, BC, Canada on 3-AUG-2007.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61U	48 elements four acid ICP-MS (U pkg)	

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: Lawrence Ng

Lawrence Ng, Laboratory Manager - Vancouver

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Finalized Date: 10-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC01561		0.52	0.023	0.30	6.36	108.5	760	5.55	0.34	1.23	0.46	128.00	10.3	61	21.10	14.8
CC01562		0.36	0.002	0.29	6.26	49.2	760	4.23	0.35	0.95	0.25	113.50	10.8	64	20.00	16.6
CC01563		0.30	0.003	0.19	5.68	35.1	690	3.82	0.32	0.94	0.23	95.00	8.2	58	17.05	13.6
CC01564		0.40	0.002	0.65	6.89	185.5	780	7.38	0.50	1.37	0.50	165.50	9.8	54	32.00	13.0
CC01565		0.16	0.005	0.67	6.70	460.0	760	6.23	0.47	1.20	0.53	140.50	12.0	62	42.20	21.3
CC01566		0.30	0.005	0.53	6.56	118.0	810	6.12	0.40	1.22	0.24	138.50	14.3	57	29.20	21.0
CC01567		0.48	0.007	0.40	6.86	217.0	820	7.61	0.40	1.60	0.35	189.50	12.1	62	35.30	18.1
CC01568		0.30	0.006	0.31	6.30	92.7	850	5.85	0.24	1.78	0.31	144.00	13.0	68	25.60	21.0
CC01569		0.54	0.005	0.47	5.96	142.0	810	4.40	0.25	1.65	0.43	128.00	9.5	61	16.70	15.6
CC04458		0.32	0.005	0.26	6.17	13.5	800	3.90	0.25	1.07	0.25	114.00	9.8	67	8.84	18.2
CC04459		0.38	0.005	0.20	6.36	16.5	810	4.15	0.23	1.24	0.25	133.00	11.5	71	9.90	20.8
CC04460		0.26	0.005	0.25	6.07	19.7	810	3.72	0.30	1.18	0.28	113.00	12.7	63	12.50	21.5
CC04461		0.36	0.006	0.20	6.18	13.7	820	2.52	0.31	1.12	0.20	87.40	10.1	70	8.39	19.3
CC04462		0.28	0.004	0.19	6.19	16.6	850	2.78	0.23	1.15	0.25	90.10	10.8	70	7.74	20.5
CC04463		0.36	0.004	0.72	6.77	78.1	910	5.13	0.65	1.49	0.79	163.00	13.1	68	13.45	22.2
CC04464		0.40	0.002	0.30	6.81	15.3	1010	5.20	0.25	1.80	0.42	160.50	12.4	65	10.80	20.1
CC04465		0.42	0.011	0.26	6.49	11.7	890	4.82	0.22	1.53	0.36	140.00	11.9	67	9.12	20.0
CC04466		0.38	0.004	0.31	6.95	12.0	1010	6.21	0.22	1.75	0.48	181.00	13.6	68	14.50	21.0
CC04467		0.24	<0.001	0.30	6.86	23.4	960	5.32	0.30	1.37	0.37	117.50	17.1	77	18.05	30.0
CC04468		0.30	0.008	0.27	6.32	20.6	870	4.40	0.23	1.41	0.20	132.50	14.4	86	13.15	19.9
CC04469		0.32	0.003	0.24	6.50	16.1	970	4.70	0.23	1.32	0.23	135.00	15.9	96	17.10	20.2
CC04470		0.22	0.004	0.29	5.64	21.5	810	3.63	0.24	1.07	0.38	90.90	8.2	66	13.25	15.4
CC04471		0.28	0.007	0.33	5.44	10.7	770	3.85	0.21	1.22	0.27	110.50	8.1	61	8.53	14.2
CC04472		0.30	0.003	0.45	5.50	11.7	720	3.92	0.23	1.21	0.17	113.50	6.6	59	9.51	10.2
CC04473		0.22	0.023	0.48	4.96	9.9	660	2.91	0.18	0.92	0.23	69.90	5.6	47	12.75	11.8
CC04474		0.36	0.008	0.23	5.79	11.2	790	2.67	0.19	1.08	0.20	99.30	9.3	63	6.69	21.1
CC04475		0.38	0.010	0.28	5.45	12.6	710	3.63	0.23	1.21	0.24	110.50	7.6	58	9.92	11.9
CC04476		0.24	0.004	0.15	4.87	9.3	640	2.24	0.15	1.16	0.19	108.50	7.4	60	4.21	16.2
CC04477		0.34	0.005	0.19	5.50	12.0	740	2.50	0.21	1.21	0.26	109.50	9.8	68	5.62	15.3
CC04478		0.32	0.007	0.30	5.74	50.9	780	2.39	0.54	1.07	0.65	101.00	9.2	60	6.07	18.2
CC04479		0.26	0.002	0.56	5.05	12.9	670	2.79	0.19	0.96	0.34	98.10	7.8	58	5.83	14.1
CC08432		0.44	0.003	0.29	6.21	11.3	930	4.52	0.33	1.78	0.29	144.50	10.2	59	10.30	15.1
CC08433		0.34	0.007	0.41	7.40	32.0	950	5.82	1.24	1.08	0.17	112.50	12.2	50	26.60	18.7
CC08434		0.38	0.003	0.36	7.15	8.7	1030	6.64	0.15	2.29	0.45	218.00	12.9	58	11.55	16.4
CC08435		0.06	0.007	0.37	7.51	21.2	970	7.45	0.29	1.50	0.20	154.50	13.0	61	24.50	22.8
CC08436		0.34	0.001	0.29	6.18	11.6	880	4.09	0.21	1.52	0.28	123.00	9.9	67	8.84	16.9
CC08437		0.28	0.003	0.11	6.84	13.3	1000	8.93	0.15	2.13	0.35	212.00	12.2	69	21.50	12.2
CC13340		0.24	0.014	0.13	5.79	155.0	830	4.24	0.68	1.85	0.26	104.00	12.5	96	22.60	20.6
CC13341		0.34	0.005	0.58	5.88	1345.0	910	4.86	3.08	1.81	0.38	136.50	16.8	105	32.80	54.5
CC13342		0.18	0.005	0.21	5.30	599.0	750	2.63	3.32	1.07	0.18	71.80	8.6	72	23.50	38.5

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: HOPEFULL

Finalized Date: 10-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC01561		3.60	19.65	0.25	3.7	0.063	1.40	65.1	83.4	0.81	801	5.02	1.19	40.1	19.5	1110
CC01562		3.56	18.25	0.23	3.1	0.061	1.28	69.9	69.6	0.77	733	4.49	1.09	27.1	21.2	1080
CC01563		3.34	16.95	0.22	2.6	0.060	1.27	44.3	61.0	0.72	525	5.11	1.04	24.0	17.7	800
CC01564		3.64	20.30	0.28	3.2	0.121	1.78	81.4	115.5	0.79	841	4.73	1.23	45.7	15.8	1170
CC01565		3.92	20.30	0.27	2.3	0.115	1.41	76.3	118.0	0.81	853	8.27	0.95	25.9	21.8	1200
CC01566		3.80	19.35	0.27	2.2	0.078	1.38	94.0	82.0	0.84	1085	7.80	0.99	24.2	22.0	1250
CC01567		4.05	19.65	0.29	2.8	0.083	1.75	96.9	92.0	0.99	940	4.77	1.14	39.9	20.2	1330
CC01568		3.88	17.20	0.26	2.4	0.065	1.70	70.6	65.5	1.15	837	4.39	1.16	28.4	20.7	1420
CC01569		3.32	14.35	0.20	2.0	0.103	1.53	65.1	48.7	0.93	680	2.40	1.21	22.6	18.5	1170
CC04458		3.84	15.80	0.21	3.1	0.060	1.38	57.0	32.6	0.84	698	2.21	1.10	22.9	21.1	1290
CC04459		4.17	17.35	0.26	3.5	0.061	1.40	71.1	38.6	0.90	735	2.83	1.16	26.5	24.0	1130
CC04460		3.83	16.60	0.23	3.2	0.057	1.45	47.5	40.0	0.83	787	3.53	1.13	24.4	23.0	1140
CC04461		3.73	16.00	0.21	2.6	0.056	1.40	36.4	34.4	0.88	626	3.09	1.22	18.7	24.3	1160
CC04462		3.84	16.25	0.23	2.7	0.055	1.42	37.9	34.1	0.88	690	3.95	1.20	20.4	24.7	1220
CC04463		4.66	18.20	0.27	3.3	0.090	1.87	84.4	41.6	1.04	1020	3.62	1.27	33.7	21.2	1520
CC04464		4.35	17.60	0.28	3.4	0.059	2.04	85.1	42.7	1.06	925	2.86	1.48	32.4	24.2	1470
CC04465		4.11	16.80	0.26	2.9	0.060	1.85	70.5	40.4	0.98	771	2.78	1.31	29.2	24.1	1280
CC04466		4.67	18.75	0.30	3.2	0.063	2.19	92.3	50.2	1.13	1020	4.43	1.35	35.3	23.4	1740
CC04467		4.90	18.80	0.26	2.2	0.070	1.69	61.9	54.7	1.36	953	3.00	1.02	27.2	23.8	1670
CC04468		4.66	18.20	0.29	2.5	0.065	1.67	68.8	40.4	1.19	946	3.17	0.92	24.7	18.8	2260
CC04469		4.92	19.35	0.27	2.6	0.065	1.83	65.2	40.9	1.29	1185	3.05	0.91	27.1	19.4	2280
CC04470		3.47	15.10	0.22	2.3	0.049	1.30	40.3	50.5	0.76	568	5.99	1.05	18.6	18.8	1470
CC04471		3.76	16.00	0.21	2.8	0.049	1.45	55.9	32.9	0.78	649	2.56	1.12	27.2	16.1	1230
CC04472		3.93	18.15	0.22	3.4	0.051	1.44	45.2	33.3	0.66	620	4.23	1.13	32.0	12.3	850
CC04473		2.85	14.05	0.17	2.2	0.037	1.37	29.5	28.4	0.53	475	5.64	0.95	18.8	11.6	890
CC04474		3.37	14.35	0.19	2.7	0.047	1.28	43.3	31.6	0.79	468	1.58	1.18	17.7	20.7	810
CC04475		3.97	15.80	0.21	3.4	0.052	1.43	45.0	37.1	0.70	619	3.27	1.08	26.7	14.3	1150
CC04476		3.70	13.10	0.23	2.9	0.047	1.09	44.0	22.1	0.69	462	1.53	1.09	20.0	16.6	830
CC04477		3.59	14.10	0.22	3.4	0.052	1.22	44.9	29.7	0.77	621	1.56	1.15	21.1	19.8	1260
CC04478		3.30	13.60	0.21	2.7	0.050	1.33	40.7	32.4	0.73	604	3.25	1.16	18.0	22.0	990
CC04479		3.44	13.75	0.20	4.1	0.049	1.15	40.4	29.9	0.69	591	1.85	0.97	21.5	17.2	1120
CC08432		4.05	15.85	0.26	4.1	0.050	1.84	75.6	38.8	0.89	780	3.56	1.37	30.0	19.9	1360
CC08433		4.47	20.10	0.24	2.7	0.058	1.69	70.5	68.7	0.85	835	6.69	0.97	28.9	18.4	1080
CC08434		4.97	19.20	0.31	4.8	0.071	2.46	112.5	48.6	1.16	1070	2.00	1.55	51.1	18.9	1810
CC08435		4.82	19.75	0.26	2.9	0.058	2.06	91.9	61.5	1.07	1220	9.16	1.15	35.7	17.2	1180
CC08436		3.95	15.95	0.22	2.9	0.054	1.77	61.9	35.6	0.90	720	2.92	1.30	27.7	20.6	1170
CC08437		5.23	21.20	0.29	3.6	0.075	2.55	109.5	44.7	1.21	1045	4.17	1.38	45.8	16.4	1940
CC13340		4.01	16.25	0.18	2.3	0.065	1.63	49.6	35.6	1.14	743	2.60	1.19	21.7	20.2	1810
CC13341		4.48	16.05	0.22	2.3	0.109	1.69	64.4	46.2	1.17	859	2.26	1.10	21.2	25.4	1870
CC13342		3.50	16.60	0.16	2.2	0.131	1.34	37.5	26.9	0.78	451	4.66	1.02	16.7	17.4	1480

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Project: HOPEFULL

Finalized Date: 10-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
CC01561		22.6	113.5	<0.002	0.04	4.96	1	6.9	226.0	2.44	0.06	33.8	0.413	0.85	14.3	103
CC01562		21.3	100.5	<0.002	0.04	4.26	<1	4.7	187.5	1.54	0.05	35.7	0.400	0.73	18.6	111
CC01563		19.1	97.5	<0.002	0.03	4.62	<1	4.4	181.0	1.27	0.05	26.7	0.388	0.71	11.1	107
CC01564		36.3	167.0	<0.002	0.03	17.85	<1	10.1	268.0	2.91	0.05	63.9	0.414	1.13	13.3	96
CC01565		31.9	124.5	<0.002	0.06	10.80	1	8.1	208.0	1.42	0.07	71.0	0.376	1.04	25.9	114
CC01566		26.9	121.0	<0.002	0.05	6.84	<1	6.0	217.0	1.30	0.06	51.2	0.368	0.98	31.6	110
CC01567		26.7	161.5	<0.002	0.03	13.65	<1	10.4	269.0	2.56	0.05	70.4	0.442	1.15	23.2	112
CC01568		19.0	137.0	<0.002	0.03	9.35	<1	6.7	289.0	1.68	0.05	62.6	0.443	0.92	14.9	117
CC01569		30.2	110.0	0.002	0.02	17.10	<1	8.6	256.0	1.37	<0.05	36.4	0.400	0.78	11.9	103
CC04458		19.9	69.6	<0.002	0.04	2.71	<1	3.0	190.0	1.35	<0.05	27.6	0.435	0.55	7.4	114
CC04459		20.5	74.0	<0.002	0.03	2.99	<1	3.3	205.0	1.49	0.06	36.2	0.444	0.63	10.1	116
CC04460		23.1	76.1	<0.002	0.04	2.70	<1	2.9	211.0	1.35	<0.05	32.0	0.414	0.61	8.7	108
CC04461		17.0	68.4	<0.002	0.04	2.30	<1	2.6	213.0	1.06	0.06	30.2	0.435	0.61	5.9	114
CC04462		17.9	71.7	<0.002	0.05	2.71	1	3.2	221.0	1.07	0.05	27.2	0.438	0.63	6.5	118
CC04463		35.0	122.0	<0.002	0.03	12.85	<1	11.8	273.0	1.72	<0.05	61.7	0.496	1.00	9.7	116
CC04464		21.1	121.5	<0.002	0.01	4.45	<1	5.0	311.0	1.76	<0.05	37.2	0.480	0.82	8.9	112
CC04465		19.4	113.5	<0.002	0.03	3.50	1	4.7	274.0	1.63	0.06	33.3	0.439	0.84	6.7	114
CC04466		24.6	145.5	<0.002	0.02	3.61	1	5.4	315.0	1.91	0.06	41.2	0.471	1.03	9.3	122
CC04467		29.8	131.5	<0.002	0.06	4.95	<1	5.8	288.0	1.26	0.05	32.9	0.471	1.12	8.1	129
CC04468		24.0	122.0	<0.002	0.06	4.50	1	5.5	266.0	1.27	0.05	21.6	0.471	1.20	9.9	138
CC04469		25.0	142.5	<0.002	0.06	5.81	1	6.2	272.0	1.34	0.05	26.9	0.515	1.37	6.9	147
CC04470		17.6	69.3	<0.002	0.07	2.27	<1	2.6	193.0	1.03	<0.05	30.0	0.378	0.56	29.0	108
CC04471		19.9	98.8	<0.002	0.05	2.06	1	3.3	214.0	1.43	0.05	29.3	0.428	0.61	5.9	104
CC04472		23.9	75.7	<0.002	0.04	1.88	1	3.7	227.0	1.72	0.06	19.2	0.510	0.64	3.1	119
CC04473		19.1	67.9	<0.002	0.06	1.53	1	2.6	196.0	1.03	<0.05	20.4	0.355	0.53	6.2	89
CC04474		20.4	61.7	<0.002	0.02	1.85	<1	2.1	191.0	1.00	<0.05	28.6	0.393	0.51	8.4	102
CC04475		28.7	70.7	<0.002	0.04	2.34	1	3.0	210.0	1.43	0.05	28.5	0.445	0.54	5.0	105
CC04476		15.5	48.5	<0.002	0.03	1.57	<1	2.2	180.5	1.12	<0.05	17.0	0.411	0.38	3.2	96
CC04477		18.1	55.6	<0.002	0.03	1.72	<1	2.3	191.0	1.18	<0.05	26.1	0.449	0.46	4.6	104
CC04478		40.1	70.0	<0.002	0.03	6.48	<1	7.4	193.5	1.02	<0.05	22.3	0.375	0.67	6.2	96
CC04479		18.9	60.8	<0.002	0.06	2.78	1	2.7	157.0	1.17	<0.05	19.2	0.390	0.48	6.7	96
CC08432		22.5	100.5	<0.002	0.02	3.23	1	3.5	287.0	1.61	<0.05	35.6	0.444	0.61	7.2	105
CC08433		41.0	117.0	<0.002	0.05	8.45	<1	3.8	248.0	1.44	0.07	73.9	0.406	0.86	21.5	104
CC08434		23.7	158.0	<0.002	0.02	3.49	1	5.4	395.0	2.53	<0.05	42.0	0.508	1.00	6.8	109
CC08435		34.6	141.5	<0.002	0.06	6.56	<1	4.9	317.0	1.82	0.05	102.5	0.439	1.03	27.0	106
CC08436		20.3	101.5	<0.002	0.03	2.78	<1	3.5	257.0	1.58	<0.05	64.9	0.444	0.67	7.4	117
CC08437		36.2	169.5	<0.002	0.02	10.00	3	7.4	350.0	2.72	0.06	54.5	0.499	1.23	11.8	119
CC13340		20.1	109.0	<0.002	0.04	4.18	2	4.8	290.0	1.30	0.06	23.4	0.490	0.76	7.4	129
CC13341		24.8	116.5	<0.002	0.03	13.35	3	10.3	261.0	1.25	0.05	27.0	0.493	0.87	10.7	131
CC13342		18.3	78.7	<0.002	0.06	3.61	2	6.9	186.5	1.05	0.07	21.5	0.455	0.73	6.2	126

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 10-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method Analyte Units LOR	ME-MS61U W ppm 0.1	ME-MS61U Y ppm 0.1	ME-MS61U Zn ppm 2	ME-MS61U Zr ppm 0.5
CC01561		9.5	24.8	110	101.0
CC01562		3.6	22.5	96	87.1
CC01563		4.3	17.8	82	73.4
CC01564		9.3	26.2	134	83.9
CC01565		6.1	24.6	154	70.6
CC01566		5.5	27.2	96	58.8
CC01567		7.4	31.6	122	68.9
CC01568		4.0	24.7	99	58.9
CC01569		3.9	20.2	110	50.7
CC04458		3.7	20.5	96	78.4
CC04459		3.9	22.6	100	89.8
CC04460		3.1	20.4	103	96.8
CC04461		2.6	15.9	88	71.5
CC04462		2.5	17.8	91	88.6
CC04463		5.7	25.6	160	86.4
CC04464		3.4	27.1	131	82.5
CC04465		4.6	23.5	114	73.8
CC04466		25.2	28.7	140	90.2
CC04467		3.0	21.5	132	67.1
CC04468		5.2	25.3	110	62.4
CC04469		4.3	23.2	113	65.4
CC04470		6.6	19.1	82	62.0
CC04471		2.4	19.3	88	73.1
CC04472		3.4	19.2	74	86.7
CC04473		2.1	11.9	64	57.5
CC04474		2.3	16.7	74	76.6
CC04475		3.3	18.0	85	92.5
CC04476		1.6	17.3	67	91.6
CC04477		1.9	18.4	80	103.5
CC04478		3.2	16.7	127	72.6
CC04479		2.5	21.1	81	127.0
CC08432		26.5	24.9	112	105.0
CC08433		5.0	21.5	120	68.5
CC08434		7.3	35.1	140	132.0
CC08435		4.7	25.4	135	81.3
CC08436		3.8	21.1	106	74.8
CC08437		6.4	36.8	138	103.0
CC13340		1.9	21.6	91	68.4
CC13341		4.3	27.1	113	70.9
CC13342		2.1	14.5	66	72.0

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Finalized Date: 10-SEP-2007
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Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC13343		0.22	0.003	0.47	6.76	632.0	1020	6.13	2.59	1.56	0.27	114.00	18.1	103	30.80	49.5
CC13344		0.28	0.005	0.11	6.24	42.0	830	4.41	0.32	1.68	0.17	104.00	11.9	85	12.35	13.5
CC13345		0.28	0.001	0.08	6.20	26.2	860	3.08	0.18	1.13	0.17	75.30	10.9	73	9.22	14.7
CC13346		0.08	0.004	0.21	5.79	61.6	790	4.92	0.30	1.42	0.31	116.50	9.9	63	13.80	14.0
CC13347		0.24	<0.001	0.16	5.18	21.7	730	3.76	0.37	0.96	0.29	79.40	6.9	59	12.40	12.1
CC13348		0.26	0.005	0.14	5.71	18.8	820	5.18	0.22	1.64	0.34	129.00	12.3	69	13.35	14.9
CC13349		0.26	0.002	0.17	5.85	18.2	830	6.76	0.21	1.90	0.41	166.50	13.0	66	16.15	16.3
CC13350		0.26	0.006	0.10	5.88	15.8	880	4.88	0.14	1.57	0.32	116.50	12.2	62	11.30	14.4
CC13802		0.28	0.005	0.27	7.27	270.0	720	7.84	0.63	1.02	0.24	136.00	13.4	59	42.90	22.3
CC13803		0.36	0.001	0.16	5.79	332.0	830	4.03	0.44	1.33	0.44	103.00	12.7	73	13.75	18.5
CC13804		0.36	0.007	0.08	5.83	440.0	810	3.02	0.26	1.30	0.26	95.90	15.2	78	13.75	22.5
CC13805		0.36	0.004	0.27	5.90	65.1	970	5.02	0.20	2.49	0.37	146.50	18.4	104	25.40	30.8
CC13806		0.24	0.001	0.13	6.16	60.1	900	5.52	0.21	1.75	0.32	107.00	16.6	98	27.40	30.1
CC13807		0.24	0.005	0.12	5.89	19.5	940	4.83	0.12	2.40	0.30	129.00	13.9	83	17.05	16.8
CC13808		0.30	0.004	0.17	6.38	31.5	950	5.54	0.24	2.14	0.34	125.50	18.0	83	27.10	27.9
CC13809		0.38	0.005	0.17	6.33	35.2	790	6.01	0.17	1.71	0.21	104.00	12.3	64	28.30	18.1
CC17910		0.24	0.002	0.26	5.27	14.2	730	3.06	0.22	0.95	0.25	88.20	7.8	51	8.92	11.4
CC17911		0.26	0.004	0.60	5.39	14.7	720	1.23	0.20	0.62	0.21	57.70	7.0	58	4.90	17.4
CC17912		0.32	0.018	0.79	5.92	20.5	750	1.82	0.23	0.80	0.64	96.20	15.9	74	7.45	31.7
CC17913		0.26	0.005	0.71	7.15	9.9	1090	1.79	0.23	0.64	0.14	77.80	4.7	59	9.05	13.9
CC17914		0.44	0.007	0.41	5.53	17.4	800	1.67	0.22	0.72	0.36	69.40	16.1	62	12.30	36.6
CC17915		0.40	0.012	0.46	5.67	18.9	770	1.75	0.23	0.67	0.39	83.30	15.5	71	11.55	33.4
CC17916		0.30	0.004	0.20	5.03	13.5	740	1.42	0.15	0.70	0.21	66.50	7.5	59	4.79	21.2
CC17917		0.22	0.004	0.14	5.92	50.5	890	3.10	0.20	1.33	0.30	89.30	10.6	70	12.25	17.2
CC17918		0.22	0.004	0.10	5.20	18.1	790	2.90	0.12	1.19	0.35	87.20	8.0	57	7.76	11.7
CC17919		0.18	0.007	0.18	5.56	15.9	900	3.25	0.15	1.27	0.18	72.80	6.8	56	9.22	11.4
CC17920		0.24	0.008	0.13	5.99	32.1	910	3.97	0.16	1.61	0.26	100.50	11.8	70	10.65	13.5
CC17921		0.20	0.004	0.09	5.74	35.1	850	3.20	0.13	1.19	0.20	89.00	11.2	67	7.58	12.3
CC17922		0.22	0.004	0.13	5.70	67.8	820	2.98	0.14	1.08	0.12	76.00	10.5	64	9.66	11.6
CC17923		0.26	0.005	0.15	6.30	19.7	900	4.94	0.22	1.21	0.25	104.00	10.4	53	14.80	12.2
CC17924		0.26	0.004	0.13	5.93	12.6	900	4.53	0.15	1.46	0.22	110.50	10.1	55	11.05	12.6
CC17925		0.26	0.001	0.11	5.97	13.8	810	5.05	0.20	1.22	0.25	108.00	10.0	51	11.70	13.3
CC17926		0.26	0.002	0.19	5.45	10.4	750	3.23	0.14	1.10	0.20	77.90	7.5	52	8.96	14.9
CC17927		0.28	0.004	0.19	6.17	10.6	860	5.88	0.13	1.60	0.32	129.00	9.4	51	24.40	13.4
CC17928		0.30	0.005	0.23	6.70	15.5	890	6.47	0.90	1.73	0.34	120.00	13.1	54	39.60	18.7
CC17929		0.30	0.010	0.48	5.65	15.9	720	4.12	0.14	1.57	0.33	104.00	8.2	50	29.80	13.8
CC17930		0.20	0.005	0.25	5.97	24.7	730	4.83	0.17	1.23	0.29	90.10	8.7	50	42.70	15.3
CC17931		0.24	0.018	0.28	6.14	15.9	650	7.00	0.09	2.05	0.35	184.50	11.1	38	59.00	12.8
CC17932		0.30	0.008	0.16	5.25	18.0	690	3.51	0.19	1.26	0.17	102.50	7.8	55	26.90	12.1
CC17933		0.20	0.006	0.49	4.74	33.6	1010	1.68	0.14	0.49	0.39	56.30	7.7	53	29.90	29.4

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CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC13343		4.74	18.75	0.20	1.9	0.089	1.77	67.0	55.0	1.44	980	3.47	0.95	21.7	24.8	1810
CC13344		4.75	18.05	0.20	2.3	0.059	1.53	50.6	42.2	1.25	660	2.49	1.11	27.6	19.2	1520
CC13345		3.90	16.15	0.16	2.3	0.050	1.50	38.5	35.2	0.95	622	2.92	1.10	18.8	19.8	1210
CC13346		3.99	16.70	0.19	2.4	0.079	1.60	58.0	39.6	0.93	721	2.51	1.11	27.1	17.8	1300
CC13347		3.07	16.85	0.18	2.5	0.047	1.29	40.7	29.7	0.69	518	8.25	1.03	19.5	14.4	1030
CC13348		4.07	15.45	0.21	2.7	0.056	1.41	64.9	47.7	0.99	875	4.11	1.22	23.4	21.3	1330
CC13349		4.68	17.40	0.25	2.9	0.068	1.52	80.6	57.6	1.17	931	5.34	1.21	32.6	22.1	1440
CC13350		3.95	17.10	0.21	2.8	0.052	1.54	58.2	43.5	0.98	880	4.38	1.24	26.1	21.5	1240
CC13802		4.50	22.40	0.22	2.3	0.094	1.29	77.7	111.5	0.96	1305	7.08	0.79	26.1	19.8	1540
CC13803		3.47	15.10	0.18	2.3	0.079	1.39	49.4	38.1	0.96	668	2.49	1.18	17.5	24.7	1310
CC13804		3.92	17.25	0.19	2.6	0.058	1.39	45.4	35.1	1.00	895	5.37	1.15	19.4	26.9	1550
CC13805		4.45	17.25	0.24	2.2	0.062	1.61	75.1	46.4	1.56	867	3.38	1.07	24.0	29.1	2130
CC13806		4.67	18.60	0.22	2.1	0.060	1.45	54.9	51.8	1.48	726	4.94	1.03	22.1	29.2	1440
CC13807		3.83	16.25	0.21	2.9	0.053	1.70	62.8	35.3	1.35	751	3.59	1.26	24.6	22.7	1940
CC13808		4.57	19.40	0.22	2.2	0.069	1.57	65.4	56.7	1.58	994	3.92	1.11	23.7	27.3	1450
CC13809		3.82	17.65	0.20	2.1	0.060	1.45	53.5	50.4	1.22	758	4.34	1.05	21.9	19.5	1250
CC17910		3.30	15.80	0.16	2.9	0.049	1.28	44.3	28.1	0.68	558	1.93	0.99	21.7	15.8	1030
CC17911		4.10	15.85	0.14	2.2	0.045	1.10	28.8	35.1	0.53	350	2.09	0.89	12.2	17.8	580
CC17912		4.30	14.50	0.17	2.8	0.059	1.10	44.6	42.1	0.70	582	1.99	0.91	15.3	35.9	560
CC17913		2.46	22.90	0.14	3.0	0.047	1.71	40.7	22.5	0.47	246	1.91	0.96	16.0	11.7	500
CC17914		4.07	15.95	0.17	2.6	0.049	1.19	34.0	35.3	0.65	539	2.56	0.91	13.3	32.0	760
CC17915		4.46	15.60	0.18	3.0	0.053	1.12	40.7	39.6	0.63	749	2.93	0.77	14.8	36.5	750
CC17916		3.55	14.10	0.15	2.3	0.044	1.06	33.2	34.9	0.56	339	1.83	0.91	12.2	19.9	360
CC17917		3.40	16.80	0.16	2.4	0.053	1.41	46.9	32.3	0.95	539	1.98	1.15	17.0	21.8	1110
CC17918		3.25	15.10	0.16	2.1	0.044	1.40	44.4	24.6	0.83	485	1.65	1.06	17.9	16.2	880
CC17919		2.66	16.35	0.16	2.2	0.042	1.63	37.0	24.2	0.84	447	1.27	1.10	19.4	12.5	1140
CC17920		3.72	17.10	0.17	2.2	0.056	1.67	49.8	32.9	1.07	827	1.85	1.11	21.2	17.8	1610
CC17921		3.47	15.90	0.16	2.3	0.050	1.32	44.1	40.5	0.87	772	2.95	1.08	16.9	20.1	1190
CC17922		3.15	15.50	0.15	2.2	0.047	1.24	39.0	53.1	0.81	573	3.47	1.06	16.4	19.1	1370
CC17923		3.37	18.25	0.17	2.6	0.049	1.72	53.0	43.4	0.82	784	1.67	1.07	23.4	17.7	1090
CC17924		3.43	16.65	0.19	2.6	0.048	1.54	58.3	37.7	0.86	701	1.90	1.14	23.2	17.2	1200
CC17925		3.80	16.90	0.19	2.6	0.051	1.52	56.5	43.7	0.86	701	2.52	1.09	24.7	17.4	1160
CC17926		3.28	15.65	0.15	2.5	0.048	1.29	43.9	30.3	0.74	473	2.79	1.06	20.7	14.7	950
CC17927		4.00	19.40	0.23	4.1	0.056	1.76	69.8	45.8	0.91	721	3.26	1.18	37.4	14.5	970
CC17928		4.53	20.60	0.21	3.5	0.054	1.86	68.4	55.8	0.96	1055	6.58	1.17	30.0	17.8	1300
CC17929		4.02	19.75	0.20	2.9	0.050	1.55	57.1	34.5	0.85	711	2.54	1.14	28.9	13.5	1030
CC17930		3.76	20.40	0.18	2.9	0.050	1.45	54.4	42.1	0.78	545	2.23	1.02	27.4	13.3	970
CC17931		5.54	25.90	0.28	5.5	0.070	2.22	98.9	55.5	1.03	1275	1.45	1.07	53.8	9.1	1710
CC17932		3.62	17.05	0.19	3.1	0.047	1.24	55.9	32.7	0.70	546	1.99	1.08	23.9	14.0	850
CC17933		3.78	17.35	0.15	1.3	0.040	1.11	30.3	37.6	0.51	575	2.16	0.57	9.9	21.6	750

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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: HOPEFULL

Finalized Date: 10-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
CC13343		26.9	132.0	<0.002	0.06	14.40	2	7.3	274.0	1.25	0.06	39.6	0.490	1.26	14.2	142
CC13344		18.5	96.0	<0.002	0.02	3.72	2	4.7	221.0	1.74	<0.05	25.9	0.539	0.74	4.7	137
CC13345		16.9	92.8	<0.002	0.03	3.66	2	2.8	208.0	1.15	<0.05	22.4	0.440	0.69	5.1	123
CC13346		30.9	105.5	<0.002	0.02	12.10	3	5.3	210.0	1.64	<0.05	33.7	0.433	0.80	5.9	107
CC13347		25.6	91.7	<0.002	0.05	3.34	3	3.0	166.5	1.34	0.05	27.9	0.441	0.67	11.0	111
CC13348		23.3	86.9	<0.002	0.02	4.15	2	2.9	222.0	1.51	<0.05	38.3	0.460	0.60	9.7	113
CC13349		26.6	99.1	<0.002	0.02	3.74	3	4.2	235.0	1.99	0.05	45.5	0.490	0.69	8.3	123
CC13350		23.3	106.5	<0.002	0.02	2.97	2	3.3	243.0	1.53	0.05	33.3	0.462	0.69	7.5	118
CC13802		32.8	114.5	<0.002	0.07	12.00	3	8.8	189.5	1.56	0.06	65.2	0.393	1.01	30.3	122
CC13803		20.3	87.6	<0.002	0.02	5.08	2	4.6	220.0	1.17	0.05	31.3	0.441	0.66	7.3	116
CC13804		20.2	90.8	<0.002	0.05	4.15	3	3.8	211.0	1.24	0.06	39.0	0.471	0.72	8.5	130
CC13805		22.8	114.0	<0.002	0.03	5.10	3	4.2	294.0	1.53	<0.05	45.6	0.560	0.81	18.8	149
CC13806		21.9	118.0	<0.002	0.04	4.47	2	4.2	266.0	1.29	0.06	39.3	0.517	0.93	12.9	148
CC13807		17.2	114.5	<0.002	0.02	3.81	3	5.0	323.0	1.73	<0.05	25.8	0.516	0.77	6.5	128
CC13808		20.9	131.5	<0.002	0.04	6.69	2	4.4	288.0	1.45	0.05	56.7	0.525	0.96	19.0	147
CC13809		20.4	112.0	<0.002	0.04	8.93	2	4.5	248.0	1.42	<0.05	44.9	0.449	0.83	13.9	121
CC17910		25.4	79.2	<0.002	0.03	5.36	2	3.6	178.5	1.34	0.05	25.2	0.429	0.58	5.1	99
CC17911		17.6	59.9	<0.002	0.04	1.77	2	1.8	138.0	0.83	0.08	9.1	0.413	0.50	2.4	122
CC17912		22.0	63.1	<0.002	0.03	4.67	3	2.0	155.0	1.00	0.05	15.9	0.438	0.54	3.5	111
CC17913		19.2	97.2	<0.002	0.03	3.83	2	2.5	186.5	1.21	0.05	14.1	0.480	0.95	3.1	122
CC17914		17.9	68.3	<0.002	0.03	4.85	3	1.9	148.0	0.92	0.08	10.8	0.440	0.59	2.7	125
CC17915		20.1	65.1	<0.002	0.03	8.95	3	2.0	137.0	1.02	0.07	14.0	0.475	0.78	3.1	118
CC17916		14.6	59.2	<0.002	0.02	1.62	3	1.7	143.0	0.85	0.06	10.0	0.420	0.47	2.3	111
CC17917		18.5	96.9	<0.002	0.03	3.85	2	3.0	226.0	1.09	<0.05	23.1	0.439	0.66	6.5	123
CC17918		16.8	88.7	<0.002	0.03	2.50	2	2.5	206.0	1.13	<0.05	21.2	0.412	0.57	3.7	107
CC17919		16.8	103.5	<0.002	0.04	2.52	2	2.9	251.0	1.24	<0.05	16.9	0.408	0.73	5.6	96
CC17920		22.1	117.0	<0.002	0.03	4.45	2	3.3	272.0	1.33	<0.05	26.5	0.446	0.69	4.9	119
CC17921		16.7	86.8	<0.002	0.03	1.85	2	2.3	201.0	1.10	<0.05	19.4	0.438	0.55	8.0	120
CC17922		17.1	77.3	<0.002	0.04	2.11	2	2.3	194.5	1.05	<0.05	20.5	0.393	0.54	20.8	113
CC17923		26.7	112.5	<0.002	0.02	4.51	2	3.4	219.0	1.44	<0.05	35.8	0.401	0.76	8.5	96
CC17924		20.6	98.2	<0.002	0.03	2.00	2	3.2	243.0	1.43	<0.05	45.2	0.421	0.67	12.4	104
CC17925		21.5	106.5	<0.002	0.04	2.08	2	3.2	220.0	1.47	0.05	46.1	0.395	0.72	11.7	99
CC17926		18.6	75.3	<0.002	0.05	1.91	2	2.7	212.0	1.25	<0.05	27.0	0.374	0.53	9.8	94
CC17927		23.2	106.0	<0.002	0.03	3.40	3	4.2	283.0	2.16	0.05	52.0	0.417	0.62	9.7	97
CC17928		29.4	106.0	<0.002	0.03	4.19	3	3.9	293.0	1.81	0.06	61.4	0.423	0.68	13.8	102
CC17929		30.0	88.2	<0.002	0.04	4.70	3	3.4	251.0	1.75	0.05	19.9	0.441	0.53	4.0	99
CC17930		30.1	88.4	<0.002	0.03	14.15	2	3.0	246.0	1.55	<0.05	23.6	0.399	0.55	8.3	95
CC17931		37.6	142.5	<0.002	0.03	13.05	3	6.5	307.0	2.95	<0.05	29.1	0.489	0.75	5.5	91
CC17932		21.7	68.6	<0.002	0.02	3.49	3	2.8	197.0	1.40	0.05	22.9	0.402	0.46	4.5	101
CC17933		15.6	60.3	<0.002	0.04	12.80	2	1.5	114.0	0.69	0.06	9.4	0.319	0.56	3.1	112

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CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5
CC13343		2.3	22.2	116	56.7
CC13344		4.8	23.1	106	68.1
CC13345		2.3	16.2	92	69.5
CC13346		3.2	23.1	129	67.6
CC13347		3.5	17.2	69	78.5
CC13348		2.6	26.7	111	79.1
CC13349		2.0	30.4	131	81.1
CC13350		2.5	23.5	105	82.9
CC13802		7.4	27.2	131	68.8
CC13803		2.3	20.1	92	68.6
CC13804		3.7	18.8	89	82.7
CC13805		3.7	31.3	104	64.5
CC13806		5.2	21.5	106	62.7
CC13807		5.6	26.6	90	84.1
CC13808		3.4	27.2	117	62.8
CC13809		4.4	22.2	96	57.7
CC17910		2.6	18.0	82	88.5
CC17911		1.4	11.7	67	71.7
CC17912		2.4	16.4	109	93.4
CC17913		4.0	15.1	43	98.8
CC17914		1.8	15.1	93	84.6
CC17915		3.0	15.9	92	95.0
CC17916		1.6	13.0	62	76.7
CC17917		6.5	19.1	81	72.0
CC17918		4.7	16.9	71	64.4
CC17919		2.1	16.1	67	67.5
CC17920		2.7	21.0	92	63.9
CC17921		2.7	18.1	86	67.8
CC17922		3.7	16.3	78	69.4
CC17923		4.5	20.9	91	78.3
CC17924		3.2	22.2	90	75.1
CC17925		4.5	21.0	97	71.3
CC17926		1.5	15.6	76	77.6
CC17927		3.9	25.7	109	120.5
CC17928		3.3	22.7	122	103.5
CC17929		1.5	20.5	101	84.7
CC17930		2.0	16.8	100	88.8
CC17931		3.4	31.8	159	156.5
CC17932		1.3	18.8	74	95.3
CC17933		3.3	9.6	100	46.8

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Finalized Date: 10-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC17934		0.26	0.007	0.39	5.83	176.5	1690	3.74	0.22	0.61	0.57	81.30	22.0	55	26.00	40.9
CC17935		0.30	0.040	1.27	5.08	1265.0	3130	6.37	0.15	0.16	4.23	58.00	50.2	35	32.60	86.3
CC17936		0.32	0.005	0.38	5.54	104.5	1700	1.82	0.16	0.37	0.57	53.80	18.0	56	29.30	46.8
CC17937		0.20	0.005	0.88	4.97	83.6	1100	2.89	0.27	0.78	3.76	58.40	12.4	53	13.55	31.0
CC17938		0.16	0.004	0.66	5.32	24.2	860	1.28	0.19	0.62	0.74	52.80	9.9	66	8.04	17.9
CC17939		0.18	0.005	0.09	5.49	14.3	870	1.34	0.11	0.83	0.49	51.00	12.7	65	3.93	16.9
CC17940		0.18	0.005	0.32	4.73	22.9	840	1.32	0.15	0.73	0.43	59.10	6.3	59	7.93	26.6
CC17941		0.26	0.009	0.63	5.72	32.1	2330	2.26	0.30	0.48	0.86	51.00	17.7	56	29.00	73.4
CC17942		0.18	0.007	0.37	4.72	16.5	1220	1.12	0.24	0.50	0.44	49.30	4.7	56	15.05	34.0
CC17943		0.30	0.006	1.97	5.23	57.7	8240	3.25	0.24	1.90	8.31	47.80	10.0	183	20.10	106.0
CC17944		0.24	0.002	3.54	5.43	45.1	3460	4.12	0.18	1.07	4.40	57.20	9.3	111	15.65	55.7
CC17945		0.22	0.002	0.58	4.78	13.7	1170	1.42	0.19	0.49	1.63	50.10	10.8	53	7.53	36.5
CC17946		0.28	0.007	0.31	5.40	13.9	970	2.04	0.14	0.84	1.19	69.30	14.4	72	5.33	29.3
CC17947		0.18	0.003	0.28	5.25	15.3	960	1.21	0.21	0.63	0.75	54.60	7.5	64	6.83	18.4
CC17948		0.20	0.005	0.24	5.33	13.4	920	1.76	0.17	0.84	0.51	62.10	13.4	64	4.94	31.0
CC17949		0.26	0.005	0.19	5.08	12.8	1030	1.33	0.24	0.52	0.44	55.50	7.7	62	6.21	24.7
CC17950		0.28	0.005	0.18	5.51	15.3	860	1.97	0.18	0.87	0.71	65.60	29.4	68	4.29	37.8
CC17951		0.24	0.007	0.12	5.05	11.8	730	1.25	0.21	0.63	0.22	51.60	7.3	67	5.07	18.0
CC17952		0.28	0.005	0.07	4.75	11.4	730	0.98	0.17	0.58	0.13	50.20	5.5	54	3.76	9.7
CC17953		0.22	0.005	0.17	4.72	11.1	730	1.08	0.18	0.54	0.27	45.00	4.9	55	4.21	17.5
CC17954		0.30	0.003	0.13	5.25	13.0	930	1.47	0.12	0.90	0.57	66.60	11.2	67	3.63	23.0
CC17955		0.20	0.005	0.07	5.87	11.6	820	1.36	0.12	0.84	0.37	51.60	8.9	63	3.03	14.9
CC17956		0.18	0.004	0.13	4.96	7.5	870	1.11	0.20	0.60	0.48	53.70	4.2	54	6.41	15.7
CC17957		0.28	0.009	0.13	5.13	13.8	1030	1.95	0.22	0.78	0.79	67.10	11.1	67	7.98	31.5
CC17958		0.26	0.005	0.26	5.54	15.3	1130	1.77	0.20	0.57	0.49	55.70	7.6	62	7.65	34.7
CC17959		0.22	0.006	1.43	5.62	61.4	3540	2.19	0.28	0.71	1.78	65.70	6.3	86	15.05	67.4
CC17960		0.22	0.006	1.13	5.61	40.5	2280	2.36	0.19	1.32	1.63	66.10	10.9	69	18.20	48.9
CC17961		0.24	0.004	0.83	5.52	37.2	2500	1.93	0.12	1.12	1.46	63.10	8.4	67	15.95	31.1
CC17962		0.22	0.005	1.31	5.38	25.8	2200	1.92	0.20	0.76	1.31	42.00	6.3	72	15.90	31.6
CC17963		0.20	0.007	1.10	5.92	45.4	2130	1.88	0.28	0.70	0.42	46.90	7.6	69	15.95	48.8
CC17964		0.32	0.008	1.25	5.77	34.2	3220	2.49	0.16	1.69	1.60	63.50	10.8	63	15.35	61.5
CC17965		0.26	0.008	1.01	5.40	74.1	6080	2.43	0.18	2.30	2.80	67.50	8.3	70	12.45	65.9
CC17966		0.22	0.006	0.10	5.53	17.2	1110	2.36	1.07	0.73	0.59	58.30	6.5	44	6.43	18.2
CC17967		0.24	0.005	0.10	5.18	14.2	1080	1.64	0.19	0.61	0.40	57.90	11.1	57	4.12	38.6
CC17968		0.32	0.004	0.12	5.61	17.8	940	1.53	0.24	0.63	0.36	57.70	9.1	68	4.66	30.3
CC17969		0.28	0.005	0.15	5.77	14.5	1430	1.72	0.29	0.32	0.29	62.80	8.5	62	9.61	52.7
CC17970		0.28	0.007	0.07	5.48	14.9	990	1.60	0.23	0.64	0.39	63.50	13.3	61	5.29	40.2
CC17971		0.28	0.004	0.23	5.98	20.5	1060	1.80	0.33	0.56	0.26	64.10	7.6	65	9.45	37.6
CC17972		0.24	0.003	0.08	5.10	14.9	910	1.76	0.25	0.43	0.32	51.50	13.1	56	6.42	39.6
CC17973		0.28	0.005	0.07	5.80	16.2	1140	1.66	0.31	0.37	0.25	58.00	6.9	57	9.45	60.7

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	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC17934		4.03	18.05	0.18	1.7	0.052	1.43	43.9	48.2	0.59	711	5.13	0.62	12.4	30.2	880
CC17935		7.82	15.50	0.20	0.8	0.040	1.56	30.8	39.0	0.44	620	14.60	0.27	5.3	47.3	1070
CC17936		4.25	15.75	0.16	1.7	0.049	1.40	28.5	50.1	0.63	648	7.24	0.56	9.5	35.9	580
CC17937		6.57	13.90	0.19	1.8	0.053	0.98	31.2	28.4	0.88	1965	3.29	0.62	7.3	29.4	1120
CC17938		3.77	16.50	0.14	2.0	0.052	1.13	28.7	23.9	0.58	577	2.41	0.87	11.2	19.2	510
CC17939		3.21	13.45	0.14	1.9	0.044	1.10	28.1	26.9	0.70	521	1.21	1.05	9.8	22.7	710
CC17940		2.89	13.90	0.12	2.2	0.042	1.06	32.9	19.3	0.46	285	2.67	0.92	10.2	20.0	1060
CC17941		6.43	15.70	0.19	2.2	0.077	1.11	27.6	36.7	0.80	486	13.05	0.70	9.0	44.1	1020
CC17942		4.01	17.10	0.15	2.2	0.066	1.10	26.8	18.7	0.40	242	7.57	0.74	10.1	13.7	1030
CC17943		3.75	15.30	0.28	2.4	0.059	1.41	33.7	51.5	2.55	451	17.85	0.40	10.3	147.0	4650
CC17944		3.73	16.60	0.20	2.4	0.053	1.38	34.6	34.3	1.05	326	15.05	0.69	11.6	61.1	2470
CC17945		2.95	13.75	0.12	2.1	0.042	1.07	27.9	21.9	0.57	213	3.52	0.63	10.5	43.1	1090
CC17946		3.79	14.40	0.16	2.2	0.050	1.20	37.4	35.5	0.76	420	3.29	0.95	11.8	44.4	690
CC17947		3.85	17.30	0.15	2.2	0.047	1.23	29.8	33.8	0.60	341	4.47	0.85	12.4	23.2	780
CC17948		3.76	13.30	0.15	2.1	0.047	1.08	34.0	41.8	0.76	400	3.37	0.93	11.3	33.1	740
CC17949		3.04	15.95	0.13	2.4	0.048	1.08	30.3	31.6	0.64	349	3.12	0.72	11.8	22.8	890
CC17950		4.07	14.65	0.16	2.4	0.052	1.10	35.5	34.1	0.76	833	3.29	0.90	11.4	38.8	1240
CC17951		3.38	17.65	0.14	2.2	0.047	1.02	28.2	20.7	0.58	316	2.01	0.84	12.5	16.9	590
CC17952		2.76	16.70	0.12	2.2	0.038	1.09	27.4	21.8	0.52	304	1.72	0.86	12.2	11.9	340
CC17953		2.60	15.20	0.11	2.1	0.041	1.03	25.5	19.2	0.46	240	1.97	0.79	11.0	13.0	860
CC17954		3.15	13.95	0.14	2.3	0.047	1.15	36.1	28.7	0.76	469	2.43	1.01	11.0	27.7	1030
CC17955		3.23	13.95	0.14	1.9	0.046	1.10	28.2	34.3	0.72	371	1.53	1.06	10.1	22.1	680
CC17956		1.93	16.15	0.11	2.8	0.037	1.22	29.3	17.4	0.43	224	2.25	0.91	12.0	12.2	740
CC17957		3.28	14.75	0.15	2.5	0.047	1.13	36.8	32.3	0.76	370	2.53	0.85	11.7	32.4	890
CC17958		4.25	16.60	0.15	2.2	0.049	1.18	30.5	28.5	0.73	330	3.34	0.73	10.9	22.6	780
CC17959		3.26	15.70	0.18	2.4	0.067	1.10	37.8	27.3	0.62	256	13.45	0.67	10.4	56.7	2230
CC17960		3.25	16.70	0.17	2.1	0.053	1.24	37.6	42.4	1.24	437	4.80	0.64	10.2	52.8	1580
CC17961		2.75	15.50	0.15	2.3	0.040	1.51	34.8	60.9	1.43	399	3.74	0.56	9.9	50.2	840
CC17962		2.62	16.55	0.16	2.2	0.050	1.36	23.7	36.1	0.95	346	4.69	0.54	9.4	34.2	1780
CC17963		4.15	16.70	0.20	2.3	0.065	1.07	26.1	30.3	0.88	278	6.05	0.67	10.0	40.1	1590
CC17964		3.34	17.30	0.20	2.0	0.058	1.54	29.5	44.2	2.99	523	11.80	0.44	8.5	67.0	810
CC17965		3.00	15.50	0.21	2.2	0.065	1.49	32.9	41.1	2.94	527	5.48	0.67	9.2	101.0	1390
CC17966		2.42	13.40	0.17	2.6	0.031	1.50	29.9	23.8	0.63	354	2.04	0.75	11.9	22.6	740
CC17967		3.43	12.25	0.16	2.1	0.040	1.03	29.7	31.4	0.78	389	3.03	0.68	10.7	35.7	720
CC17968		4.06	14.00	0.19	2.3	0.044	1.10	29.4	34.9	0.70	367	2.27	0.82	11.8	26.4	630
CC17969		3.73	14.55	0.20	2.3	0.046	1.37	32.3	37.1	0.82	282	3.55	0.41	12.7	30.6	680
CC17970		3.92	12.85	0.20	2.2	0.044	1.13	31.8	33.3	0.78	378	3.05	0.77	10.8	33.9	760
CC17971		3.97	15.45	0.20	2.5	0.058	1.18	29.2	38.5	0.79	401	3.41	0.78	11.9	23.6	500
CC17972		4.37	12.70	0.20	1.9	0.041	1.02	25.5	46.5	0.72	373	2.74	0.62	10.4	35.9	660
CC17973		4.65	14.40	0.20	2.2	0.049	1.16	28.7	46.8	0.78	296	3.41	0.54	12.0	23.0	770

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1016-510 W HASTINGS ST
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Finalized Date: 10-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
CC17934		24.2	86.1	<0.002	0.06	86.40	3	1.9	147.5	0.83	0.06	19.3	0.309	0.91	5.0	101
CC17935		17.1	91.5	0.003	0.04	>1000	4	1.0	97.1	0.40	0.06	10.2	0.147	0.61	11.3	93
CC17936		17.4	81.5	<0.002	0.04	19.35	3	1.4	100.0	0.63	0.07	8.8	0.297	0.54	2.9	118
CC17937		67.4	71.0	<0.002	0.06	17.10	3	2.4	115.5	0.51	0.07	10.0	0.251	0.71	2.1	106
CC17938		77.3	75.2	<0.002	0.03	5.11	2	2.2	139.5	0.76	0.07	8.1	0.383	0.81	2.1	125
CC17939		17.3	57.2	<0.002	0.02	2.18	2	1.5	160.5	0.69	0.05	8.0	0.338	0.45	2.0	103
CC17940		15.5	52.1	<0.002	0.04	6.68	3	1.5	152.0	0.73	0.06	8.4	0.375	0.55	2.5	106
CC17941		19.0	81.9	<0.002	0.28	21.10	7	1.5	155.5	0.62	0.11	11.7	0.280	0.84	4.4	125
CC17942		20.6	65.0	<0.002	0.13	9.69	5	1.9	126.5	0.70	0.10	7.8	0.360	0.75	2.5	131
CC17943		57.8	93.9	0.005	0.08	53.10	43	3.8	304.0	0.62	0.19	8.3	0.319	1.73	9.3	1310
CC17944		117.0	104.5	0.002	0.08	40.80	15	4.4	199.0	0.78	0.12	8.1	0.401	1.49	5.7	585
CC17945		17.4	66.7	<0.002	0.08	10.35	3	1.5	115.0	0.73	0.08	7.6	0.327	0.59	2.4	126
CC17946		15.7	69.8	<0.002	0.06	2.74	3	1.6	161.0	0.81	0.06	9.8	0.396	0.49	2.7	133
CC17947		16.1	94.3	<0.002	0.05	2.74	3	1.9	139.5	0.85	0.08	7.6	0.438	0.67	2.1	158
CC17948		16.9	60.7	<0.002	0.07	2.35	3	1.4	190.0	0.74	0.07	9.4	0.350	0.42	2.4	111
CC17949		16.5	72.3	<0.002	0.04	2.29	2	1.8	133.0	0.80	0.07	7.8	0.395	0.56	2.5	134
CC17950		16.0	66.5	<0.002	0.06	2.36	3	1.6	224.0	0.86	0.08	9.8	0.388	0.48	2.8	122
CC17951		16.1	52.8	<0.002	0.03	1.44	3	1.9	135.0	0.87	0.07	7.2	0.456	0.55	2.2	136
CC17952		12.1	58.0	<0.002	0.02	1.48	2	1.9	134.0	0.85	0.05	6.7	0.436	0.52	1.9	128
CC17953		13.6	55.5	<0.002	0.04	1.27	3	1.8	130.5	0.76	0.07	6.4	0.380	0.53	2.1	116
CC17954		14.5	61.1	<0.002	0.03	2.34	3	1.5	173.5	0.77	0.06	9.6	0.380	0.43	2.6	119
CC17955		14.9	57.2	<0.002	0.02	1.48	2	1.5	172.0	0.70	<0.05	7.9	0.326	0.42	1.9	104
CC17956		13.0	68.8	<0.002	0.04	1.26	3	1.8	149.0	0.84	0.07	7.5	0.414	0.56	2.4	115
CC17957		18.7	63.7	<0.002	0.04	3.88	3	1.6	146.5	0.85	0.06	9.8	0.387	0.52	2.9	117
CC17958		13.5	74.6	<0.002	0.07	6.72	3	1.6	137.0	0.76	0.07	8.7	0.361	0.53	2.5	123
CC17959		77.2	68.1	<0.002	0.13	24.20	11	2.4	180.5	0.72	0.11	10.3	0.336	1.48	8.0	303
CC17960		34.0	67.1	<0.002	0.08	27.20	5	2.4	232.0	0.74	0.07	9.5	0.323	0.72	4.5	244
CC17961		18.6	74.0	<0.002	0.04	25.10	3	1.7	212.0	0.71	0.07	10.6	0.313	0.62	3.0	183
CC17962		19.4	69.4	<0.002	0.08	17.55	4	1.9	149.0	0.57	0.08	7.3	0.318	0.98	4.6	200
CC17963		25.0	59.6	<0.002	0.12	15.85	5	2.0	151.5	0.59	0.08	7.4	0.343	1.07	3.3	138
CC17964		58.5	73.9	0.002	0.03	27.90	4	1.6	290.0	0.52	0.05	7.9	0.276	0.65	3.4	224
CC17965		21.9	71.3	0.002	0.05	18.90	4	1.9	269.0	0.55	0.09	8.5	0.300	0.78	4.9	432
CC17966		53.1	100.0	<0.002	0.03	3.69	2	1.7	139.0	0.80	<0.05	13.7	0.276	0.88	4.2	84
CC17967		16.2	69.3	<0.002	0.05	3.95	2	1.2	125.0	0.76	<0.05	9.4	0.342	0.49	2.8	108
CC17968		15.6	74.3	<0.002	0.05	1.50	2	1.4	134.0	0.84	0.06	9.0	0.393	0.53	2.6	125
CC17969		18.7	94.2	<0.002	0.16	2.33	2	1.5	85.9	0.91	0.07	10.1	0.376	0.65	2.9	128
CC17970		15.1	77.3	<0.002	0.18	1.86	2	1.3	165.5	0.77	0.06	9.9	0.352	0.60	2.9	111
CC17971		16.5	76.0	<0.002	0.11	3.13	3	1.9	157.5	0.71	0.07	8.4	0.361	0.67	2.2	135
CC17972		18.4	68.6	<0.002	0.13	2.15	2	1.2	115.0	0.75	0.05	8.4	0.329	0.59	2.5	110
CC17973		20.9	81.7	<0.002	0.23	2.55	3	1.4	136.5	0.82	0.09	9.7	0.361	0.74	2.9	119

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Project: HOPEFULL

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CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method Analyte Units LOR	ME-MS61U W ppm 0.1	ME-MS61U Y ppm 0.1	ME-MS61U Zn ppm 2	ME-MS61U Zr ppm 0.5
CC17934		7.3	15.5	178	61.1
CC17935		145.0	17.6	1070	29.2
CC17936		2.2	11.9	187	59.7
CC17937		1.9	23.6	253	65.2
CC17938		1.7	11.2	102	72.2
CC17939		1.0	11.5	81	63.5
CC17940		1.1	11.8	75	75.3
CC17941		1.1	13.6	196	75.6
CC17942		1.3	9.9	73	81.2
CC17943		2.1	30.9	1660	100.5
CC17944		2.0	20.4	583	88.5
CC17945		1.0	12.2	143	77.2
CC17946		1.0	15.5	265	76.8
CC17947		1.1	11.7	109	77.1
CC17948		0.9	13.9	123	72.6
CC17949		1.0	12.9	82	84.6
CC17950		1.2	15.6	145	82.5
CC17951		1.2	11.7	53	79.4
CC17952		1.1	9.8	45	75.4
CC17953		1.0	9.9	45	74.7
CC17954		0.9	14.8	116	77.3
CC17955		0.8	11.8	75	65.7
CC17956		1.0	11.2	41	99.3
CC17957		1.3	16.1	116	81.8
CC17958		0.9	12.2	110	77.9
CC17959		2.7	18.6	352	85.9
CC17960		2.2	23.6	281	74.3
CC17961		2.5	18.4	248	82.2
CC17962		1.9	13.7	179	68.2
CC17963		1.8	13.7	132	67.6
CC17964		1.1	20.6	416	70.1
CC17965		1.8	25.3	742	69.4
CC17966		1.6	13.6	108	68.9
CC17967		1.2	13.5	110	64.6
CC17968		1.2	12.5	75	68.1
CC17969		1.6	13.9	104	75.3
CC17970		1.0	14.3	109	69.8
CC17971		1.1	12.7	78	72.0
CC17972		1.0	12.2	124	63.6
CC17973		1.0	12.5	96	71.8

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CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC17974		0.24	0.006	0.07	5.42	17.5	960	1.26	0.28	0.51	0.28	54.40	6.3	61	8.44	38.3
CC17975		0.36	0.008	0.20	5.64	16.6	1120	1.74	0.30	0.51	0.47	60.90	14.3	58	7.23	55.4
CC17976		0.30	0.005	0.14	6.16	18.8	1270	2.51	0.31	0.30	0.49	54.60	14.4	59	7.86	70.5
CC17977		0.36	0.006	0.78	7.05	23.6	1530	4.67	0.41	0.36	2.21	74.10	48.1	56	11.65	163.0
CC17978		0.30	0.003	0.25	5.95	12.1	1100	3.08	0.24	0.43	0.57	64.20	16.6	58	5.84	67.7
CC17979		0.26	0.008	0.19	5.71	17.0	1010	2.41	0.17	0.55	0.82	51.20	18.6	51	5.76	49.7
CC17980		0.32	0.003	0.26	5.69	17.3	1130	2.35	0.20	0.29	0.76	36.20	14.3	42	9.48	53.0
CC17981		0.32	0.003	0.20	6.32	38.3	1090	2.64	0.22	0.60	0.89	65.70	14.7	62	14.85	50.3
CC17982		0.32	0.006	0.32	5.65	16.3	1010	1.44	0.25	0.59	0.67	61.10	12.5	69	17.00	45.4
CC17983		0.26	0.008	1.41	6.07	81.0	3920	2.89	0.31	0.49	8.88	89.30	122.5	66	19.45	165.0
CC17984		0.32	0.013	0.42	5.68	96.5	1200	1.81	0.31	0.42	0.99	67.50	7.5	70	26.10	37.0
CC17985		0.34	0.005	0.49	5.05	257.0	1840	4.33	0.23	0.47	0.62	77.40	15.7	43	54.20	69.0
CC17986		0.32	0.004	0.48	7.07	73.6	1550	7.77	1.58	1.32	0.56	163.50	9.6	40	60.20	25.7
CC17987		0.24	0.005	0.90	8.37	656.0	2890	9.58	1.16	1.11	0.28	112.00	1.9	14	90.50	24.1
CC17988		0.32	0.005	0.40	5.95	46.8	750	5.34	0.23	1.21	0.44	121.00	7.9	57	21.90	14.4
CC17989		0.28	0.002	0.33	6.54	23.2	840	4.66	0.29	1.00	0.15	93.50	7.4	65	13.60	16.7
CC17990		0.24	0.005	0.87	6.01	151.5	750	3.10	0.96	0.98	0.50	89.40	7.7	58	11.70	18.4
CC17991		0.24	0.004	0.26	6.31	12.9	800	4.57	0.19	1.47	0.19	123.00	7.3	59	11.10	13.3
CC17992		0.28	0.002	0.21	5.95	10.9	790	3.32	0.22	1.11	0.14	83.00	6.1	60	9.54	14.5
CC17993		0.18	0.008	0.36	6.48	15.8	870	8.51	0.19	2.53	0.32	229.00	9.3	68	8.76	12.7
CC17994		0.24	0.015	0.24	6.54	18.0	900	5.58	0.24	1.33	0.23	121.50	9.1	72	10.55	15.5
CC21437		0.22	0.004	0.22	5.25	12.1	800	1.21	0.23	0.77	0.33	65.20	9.0	64	10.90	25.5
CC21438		0.28	0.006	0.35	5.78	10.8	920	1.13	0.24	0.56	0.14	68.60	3.8	64	5.52	17.9
CC21439		0.26	0.003	0.28	6.11	14.7	1000	1.66	0.24	0.79	0.51	84.20	17.2	72	5.37	27.0
CC21440		0.22	0.003	0.17	5.87	14.2	790	1.14	0.30	0.60	0.12	65.90	5.8	67	7.37	18.5
CC21441		0.14	0.005	0.20	4.76	7.4	640	0.87	0.26	0.52	0.12	39.90	3.9	50	5.20	18.8
CC21442		0.30	0.007	0.32	5.25	11.4	880	1.44	0.20	0.78	0.33	96.40	9.1	69	5.33	26.7
CC21443		0.20	0.002	0.22	5.25	16.6	790	0.97	0.31	0.53	0.08	53.00	4.6	64	5.76	13.2
CC21444		0.30	0.005	0.26	5.60	13.4	1010	1.52	0.21	0.80	0.35	88.50	12.5	62	7.77	31.3
CC21445		0.24	0.002	0.25	4.92	10.3	730	1.02	0.26	0.51	0.14	44.30	4.4	53	4.99	16.5
CC21446		0.34	0.006	0.29	5.41	12.5	1030	1.76	0.22	0.53	0.38	88.20	24.4	62	8.53	34.6
CC21447		0.32	0.006	0.25	6.45	14.5	1050	1.61	0.34	0.67	0.25	77.70	15.2	76	9.64	36.9
CC21448		0.28	0.001	0.24	5.17	12.6	820	1.05	0.33	0.57	0.15	53.10	5.0	67	6.28	20.9
CC21449		0.26	0.004	0.17	6.18	15.5	930	1.48	0.30	0.85	0.24	88.60	14.6	77	5.56	29.9
CC21450		0.32	0.008	0.16	5.53	16.2	790	1.43	0.27	0.69	0.34	84.40	14.4	72	5.82	31.2
CC21451		0.24	0.002	0.31	5.24	13.3	800	1.16	0.34	0.53	0.33	48.00	7.2	64	7.17	34.1
CC26748		0.22	0.002	0.22	5.57	93.7	850	2.53	0.22	1.36	0.15	78.10	10.5	68	9.96	18.1
CC26749		0.24	0.003	0.40	6.19	143.5	910	4.65	0.45	2.11	0.27	164.00	12.7	102	16.70	24.9

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Project: HOPEFULL

Finalized Date: 10-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC17974		3.54	13.50	0.18	2.2	0.049	1.10	27.6	32.7	0.66	323	2.67	0.69	11.1	19.8	970
CC17975		4.06	13.25	0.18	2.4	0.052	1.20	30.4	36.8	0.81	461	3.63	0.64	11.2	38.8	1220
CC17976		4.91	15.45	0.20	2.3	0.055	1.10	27.5	42.4	0.92	408	5.36	0.42	11.6	50.3	1220
CC17977		7.27	16.55	0.29	3.2	0.080	1.51	33.5	52.5	1.22	365	7.87	0.19	13.4	179.5	1790
CC17978		4.65	14.70	0.20	2.4	0.056	1.13	29.4	39.5	0.80	409	6.00	0.52	9.6	63.6	1070
CC17979		4.98	15.10	0.21	2.1	0.051	1.00	27.9	24.1	0.79	619	4.30	0.59	9.1	24.4	800
CC17980		4.96	13.70	0.17	1.9	0.050	0.69	19.6	28.1	0.78	766	4.86	0.30	8.0	30.3	900
CC17981		4.94	17.10	0.23	2.2	0.071	1.13	29.9	29.5	0.64	463	4.45	0.70	10.2	25.5	1060
CC17982		3.73	16.10	0.19	2.2	0.052	1.21	28.3	27.3	0.63	487	3.42	0.82	11.3	27.1	790
CC17983		5.48	15.75	0.24	2.5	0.071	1.15	37.9	48.1	0.54	3630	36.10	0.57	11.7	129.0	1420
CC17984		5.02	18.85	0.21	2.6	0.060	0.98	31.6	70.8	0.44	619	15.85	0.48	10.9	49.5	1470
CC17985		4.71	22.90	0.24	1.5	0.056	1.17	34.8	29.8	0.46	507	13.75	0.39	11.4	30.1	1190
CC17986		5.08	29.80	0.31	3.9	0.064	2.16	95.0	40.6	0.90	1025	2.35	0.79	37.6	17.5	1550
CC17987		2.74	35.80	0.23	3.3	0.048	3.67	73.0	30.5	0.66	146	2.45	0.27	34.2	2.4	1070
CC17988		3.95	16.60	0.25	3.1	0.059	1.35	69.6	33.2	0.86	776	1.59	1.06	24.3	17.4	1190
CC17989		3.90	17.55	0.23	2.4	0.055	1.52	44.2	34.6	0.90	629	2.37	1.07	19.4	17.6	1350
CC17990		3.64	16.75	0.21	2.7	0.246	1.41	41.3	28.9	0.76	841	1.89	0.95	20.8	14.1	1180
CC17991		3.84	16.75	0.26	2.9	0.060	1.60	69.0	29.4	0.92	790	1.48	1.14	25.0	15.5	1400
CC17992		3.30	15.25	0.20	2.3	0.046	1.38	39.3	24.5	0.80	479	1.82	1.10	18.0	16.3	1290
CC17993		4.87	18.30	0.37	4.4	0.067	2.06	118.5	31.8	1.15	1165	1.89	1.46	45.7	16.1	2070
CC17994		4.00	16.95	0.25	2.9	0.055	1.67	68.7	31.7	0.95	886	1.78	1.16	25.0	17.9	1350
CC21437		3.47	12.50	0.19	2.0	0.045	1.18	29.7	20.4	0.68	443	1.74	0.92	9.9	25.7	950
CC21438		2.63	16.00	0.16	2.6	0.046	1.18	30.8	16.0	0.49	257	1.87	0.84	12.2	16.3	320
CC21439		3.67	14.95	0.20	2.7	0.058	1.35	35.8	23.7	0.69	1055	2.65	0.91	12.2	32.7	1010
CC21440		3.21	15.15	0.19	2.7	0.046	1.21	30.7	22.7	0.60	307	2.13	0.88	12.4	17.5	440
CC21441		2.23	12.00	0.14	2.4	0.037	1.04	22.4	13.6	0.41	204	2.05	0.76	10.2	12.3	990
CC21442		3.37	11.50	0.23	2.8	0.042	1.16	43.5	22.3	0.65	469	1.77	0.83	12.7	25.5	970
CC21443		3.59	15.05	0.20	2.6	0.039	1.21	29.7	18.4	0.52	296	1.96	0.75	12.8	14.3	550
CC21444		3.20	12.20	0.21	2.6	0.046	1.33	40.2	24.1	0.68	531	2.11	0.85	11.9	28.1	970
CC21445		2.70	12.10	0.16	2.4	0.039	1.06	25.0	17.4	0.45	258	1.82	0.74	11.0	14.2	850
CC21446		3.54	12.05	0.21	2.8	0.049	1.23	39.2	29.1	0.63	948	2.58	0.62	11.9	31.7	900
CC21447		3.90	15.00	0.22	3.1	0.057	1.44	35.5	27.4	0.77	683	2.92	0.87	14.0	29.5	1180
CC21448		3.33	13.80	0.18	2.9	0.046	1.15	29.8	18.9	0.50	309	2.51	0.72	13.1	17.3	1080
CC21449		4.20	13.20	0.23	3.0	0.055	1.26	40.4	30.2	0.81	829	2.09	0.92	13.6	27.1	1120
CC21450		3.82	12.60	0.21	2.8	0.052	1.11	38.1	28.2	0.69	654	2.20	0.81	12.1	28.3	1090
CC21451		3.61	12.90	0.19	3.0	0.053	1.11	26.8	22.1	0.54	376	2.46	0.68	12.6	25.3	1830
CC26748		2.97	11.55	0.19	1.7	0.042	1.31	36.0	30.7	0.95	759	1.93	1.15	12.9	19.8	1200
CC26749		4.08	14.50	0.31	2.4	0.065	1.67	88.6	44.8	1.38	781	1.96	1.09	22.1	24.0	2400

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Project: HOPEFULL

Finalized Date: 10-SEP-2007
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CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
CC17974		16.8	74.3	<0.002	0.13	2.61	2	1.5	165.0	0.79	0.07	8.8	0.365	0.63	2.7	118
CC17975		19.2	82.4	<0.002	0.17	2.57	3	1.3	122.0	0.81	0.07	10.0	0.358	0.62	2.9	124
CC17976		22.5	87.3	<0.002	0.15	3.03	3	1.4	97.8	0.82	0.07	9.9	0.351	0.64	3.7	150
CC17977		35.5	118.5	<0.002	0.59	7.56	7	1.5	109.5	0.77	0.14	11.8	0.345	1.12	2.9	129
CC17978		19.2	69.6	<0.002	0.13	2.81	3	1.3	126.0	0.58	0.08	8.8	0.311	0.51	2.4	157
CC17979		11.5	56.9	<0.002	0.09	11.80	3	1.2	148.0	0.56	0.06	7.6	0.302	0.42	2.2	98
CC17980		10.5	50.1	<0.002	0.10	10.50	3	1.1	91.0	0.48	0.07	6.2	0.238	0.37	2.1	97
CC17981		13.8	65.3	<0.002	0.11	15.55	3	1.6	137.0	0.63	0.07	8.6	0.336	0.68	2.4	130
CC17982		14.6	78.0	<0.002	0.04	3.53	3	1.8	139.5	0.68	0.07	7.4	0.390	0.73	2.3	137
CC17983		36.5	70.2	<0.002	0.05	42.80	4	1.7	128.5	0.72	0.11	10.6	0.362	2.30	3.9	162
CC17984		31.6	63.8	<0.002	0.06	47.50	3	2.5	108.5	0.66	0.11	9.1	0.370	1.08	3.4	349
CC17985		30.3	76.9	0.002	0.09	100.00	7	1.9	218.0	0.64	0.09	34.6	0.223	1.18	6.0	87
CC17986		35.6	158.5	<0.002	0.03	27.00	3	4.1	406.0	1.83	0.05	25.5	0.404	1.07	8.6	90
CC17987		65.3	240.0	<0.002	0.01	100.50	2	6.8	2040.0	1.71	<0.05	15.5	0.274	2.63	10.1	45
CC17988		22.9	79.3	<0.002	0.02	9.45	3	3.6	210.0	1.30	<0.05	28.2	0.399	0.67	6.7	104
CC17989		21.9	110.5	<0.002	0.05	3.46	2	3.3	219.0	1.04	<0.05	28.2	0.396	0.80	9.6	118
CC17990		129.0	103.0	<0.002	0.03	51.50	2	23.5	195.5	1.15	<0.05	15.6	0.403	0.81	4.4	104
CC17991		20.7	101.5	<0.002	0.03	4.41	2	3.6	252.0	1.35	<0.05	33.4	0.405	0.67	6.1	101
CC17992		15.8	77.3	<0.002	0.05	1.73	2	2.6	214.0	0.99	<0.05	21.6	0.386	0.60	7.4	106
CC17993		20.7	129.0	<0.002	0.01	3.44	3	6.0	341.0	2.54	<0.05	93.0	0.527	0.78	9.4	122
CC17994		20.4	117.0	<0.002	0.02	3.09	2	3.7	242.0	1.53	<0.05	30.1	0.432	0.77	9.0	119
CC21437		19.8	59.9	<0.002	0.03	2.10	2	1.5	155.5	0.63	<0.05	7.7	0.358	0.58	1.8	111
CC21438		13.9	65.2	<0.002	0.02	2.42	2	1.9	136.0	0.75	0.07	8.6	0.423	0.77	2.3	127
CC21439		17.1	71.2	<0.002	0.03	3.36	2	1.7	156.5	0.77	0.06	9.6	0.427	0.62	2.4	130
CC21440		13.5	62.5	<0.002	0.02	1.54	3	2.1	138.5	0.73	0.08	7.5	0.429	0.60	2.2	135
CC21441		10.9	49.0	<0.002	0.07	1.16	3	1.6	128.0	0.60	0.07	5.7	0.361	0.50	2.0	99
CC21442		12.9	59.2	<0.002	0.02	2.03	3	1.6	143.0	0.78	0.05	11.1	0.425	0.44	2.5	114
CC21443		15.5	59.3	<0.002	0.03	1.75	3	1.9	123.5	0.77	0.06	6.9	0.445	0.55	1.9	135
CC21444		14.9	67.9	<0.002	0.02	3.69	3	1.7	148.0	0.71	0.05	10.0	0.372	0.47	2.4	118
CC21445		12.6	52.6	<0.002	0.05	1.67	3	1.6	122.5	0.65	0.05	6.4	0.351	0.48	1.8	101
CC21446		15.8	70.8	<0.002	0.02	4.55	3	1.6	112.5	0.73	0.06	10.2	0.361	0.56	2.6	108
CC21447		16.8	80.2	<0.002	0.05	3.33	3	2.1	141.5	0.83	0.08	8.9	0.460	0.67	2.6	137
CC21448		12.2	63.9	<0.002	0.06	2.14	3	2.0	123.5	0.79	0.07	7.7	0.425	0.63	2.3	134
CC21449		15.1	67.6	<0.002	0.04	2.29	3	1.9	154.5	0.92	0.08	10.1	0.457	0.56	2.5	132
CC21450		19.4	60.9	<0.002	0.04	2.95	3	1.8	138.0	0.73	0.07	9.4	0.420	0.53	2.4	122
CC21451		14.5	61.1	<0.002	0.10	2.51	3	1.8	113.5	0.77	0.08	8.0	0.411	0.61	2.5	128
CC26748		14.4	68.2	<0.002	0.03	4.38	2	3.0	234.0	0.69	<0.05	17.1	0.363	0.67	7.5	108
CC26749		20.3	131.5	<0.002	0.02	11.30	3	7.8	300.0	1.15	<0.05	23.5	0.489	1.01	15.6	134

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CERTIFICATE OF ANALYSIS VA07091622

Sample Description	Method / Analyte / Units / LOR	ME-MS61U W ppm 0.1	ME-MS61U Y ppm 0.1	ME-MS61U Zn ppm 2	ME-MS61U Zr ppm 0.5
CC17974		1.1	11.5	74	70.8
CC17975		1.2	14.5	138	71.4
CC17976		1.2	14.7	155	77.0
CC17977		1.2	29.2	396	115.5
CC17978		1.1	14.8	195	74.5
CC17979		1.0	13.3	158	62.6
CC17980		0.9	9.9	154	56.5
CC17981		1.4	13.1	151	71.7
CC17982		1.5	12.9	106	65.1
CC17983		20.7	34.5	447	85.6
CC17984		4.7	12.1	216	77.8
CC17985		38.0	21.2	130	37.8
CC17986		8.7	25.6	158	93.6
CC17987		24.4	18.0	73	74.8
CC17988		3.8	20.9	116	90.6
CC17989		2.7	17.5	91	62.0
CC17990		3.3	15.2	154	70.7
CC17991		2.3	21.1	105	82.1
CC17992		1.8	14.8	80	61.6
CC17993		7.0	38.1	137	116.0
CC17994		2.9	21.2	108	69.8
CC21437		1.1	12.9	93	65.5
CC21438		1.9	12.7	50	74.7
CC21439		1.5	17.1	89	87.1
CC21440		1.4	15.6	51	89.4
CC21441		1.1	10.6	36	74.8
CC21442		1.4	18.7	74	80.1
CC21443		1.5	11.7	46	86.7
CC21444		1.2	19.8	81	73.8
CC21445		1.2	10.3	40	68.5
CC21446		1.8	18.7	97	82.1
CC21447		1.6	17.2	80	103.5
CC21448		1.5	13.0	57	95.8
CC21449		1.6	16.8	91	84.3
CC21450		1.4	16.1	96	77.6
CC21451		1.3	13.7	74	102.5
CC26748		1.5	17.4	72	45.6
CC26749		2.9	32.4	103	58.7

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Finalized Da... 13-SEP-2007
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CERTIFICATE VA07084064

Project: HOPEFULL

P.O. No.:

This report is for 168 Soil samples submitted to our lab in Vancouver, BC, Canada on 3-AUG-2007.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61U	48 elements four acid ICP-MS (U pkg)	

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: Lawrence Ng

Lawrence Ng, Laboratory Manager - Vancouver

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212 Brooksbank Avenue
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Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 13-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
BB09884		0.40	0.011	1.05	8.86	17.3	3900	3.28	0.48	0.26	0.92	150.50	39.2	92	41.80	87.5
BB09885		0.34	0.003	0.36	6.29	11.7	1520	1.70	0.26	0.69	0.33	84.90	15.6	71	14.75	29.3
BB09886		0.36	0.004	0.21	5.50	14.7	900	1.15	0.28	0.54	0.18	70.30	8.3	65	8.32	18.7
BB09887		0.36	0.009	0.24	5.74	5.6	1110	1.16	0.27	0.47	0.14	65.40	4.0	63	9.99	24.9
BB09888		0.28	0.008	0.27	6.05	14.0	1200	1.33	0.30	0.53	0.31	52.50	8.5	68	9.72	24.7
BB09889		0.38	0.004	0.32	6.65	13.9	1640	2.01	0.32	0.58	0.40	99.10	17.2	76	12.90	28.3
BB09976		0.24	0.009	0.44	5.75	16.3	810	2.16	0.32	0.79	0.28	83.60	21.7	124	8.14	63.0
BB09977		0.30	0.008	0.56	7.03	16.7	1500	2.95	0.41	0.35	0.37	106.00	20.4	68	21.00	85.0
BB09978		0.32	0.005	0.61	6.17	18.9	850	2.83	0.67	0.64	0.53	98.60	11.0	61	16.10	48.4
BB09979		0.28	0.007	0.27	5.01	22.8	640	1.61	0.31	0.53	0.20	80.20	5.7	68	9.32	54.0
BB09980		0.32	0.015	0.25	5.68	22.0	890	1.79	0.34	0.65	0.36	83.10	18.8	73	9.10	43.5
BB09981		0.26	0.008	1.11	7.18	32.2	1370	4.09	0.45	0.30	0.90	113.00	71.6	73	23.40	116.0
BB09982		0.24	0.011	0.18	4.98	13.5	770	1.08	0.34	0.50	0.11	49.00	4.7	65	6.81	17.9
BB09983		0.28	0.014	0.25	5.20	15.1	800	1.94	0.49	1.12	0.48	120.00	14.4	76	5.90	40.7
BB09984		0.32	0.005	0.18	5.52	15.4	920	2.29	0.34	0.52	0.36	57.90	11.4	66	10.60	49.5
BB09985		0.14	0.009	0.30	5.06	10.9	680	1.23	0.31	0.61	0.20	39.00	5.8	54	5.65	24.0
BB09986		0.32	0.014	0.20	6.39	15.1	850	1.52	0.30	0.69	0.19	49.60	8.7	73	6.48	30.3
BB09987		0.28	0.009	0.18	7.01	16.4	940	1.83	0.31	0.76	0.36	50.40	14.4	77	6.21	38.1
BB09988		0.32	0.013	0.25	5.63	16.1	810	2.04	0.21	0.87	0.32	90.80	16.6	67	10.85	40.6
BB09989		0.34	0.007	0.35	5.39	13.1	980	1.75	0.17	1.06	0.63	92.70	10.3	62	6.63	28.9
BB09990		0.24	0.003	0.35	4.53	14.9	830	1.44	0.20	0.65	0.27	75.70	6.9	50	12.15	32.1
BB09991		0.34	0.009	0.91	5.80	33.2	900	2.85	0.53	0.72	0.78	184.50	35.0	71	12.95	119.5
BB09992		0.40	0.005	0.81	6.79	32.0	1720	2.86	0.32	0.17	0.92	129.00	24.6	65	27.30	45.6
BB09993		0.36	0.008	2.72	8.52	51.8	1140	6.91	0.82	0.82	0.98	176.00	22.9	65	36.20	45.4
BB09994		0.34	0.007	0.59	8.46	21.5	820	11.05	0.77	1.34	0.77	344.00	14.4	34	25.80	15.4
BB09995		0.34	0.011	0.63	8.05	24.5	1040	7.76	0.62	1.14	0.62	270.00	9.5	39	17.45	11.3
BB09996		0.44	0.003	0.58	8.26	11.8	1180	12.00	0.24	2.29	0.64	355.00	16.1	34	20.00	14.7
BB09997		0.38	0.009	2.03	7.01	68.9	610	4.32	9.80	0.71	0.23	219.00	7.4	42	12.55	8.8
BB13394		0.32	0.005	0.26	7.14	98.6	730	6.03	0.60	0.90	0.23	141.50	8.5	58	27.80	14.7
BB13395		0.28	0.003	0.18	6.41	23.3	840	4.04	0.53	1.32	0.22	107.00	12.1	82	19.15	16.5
BB13396		0.26	0.005	0.11	6.09	15.1	760	2.30	0.31	1.05	0.17	87.10	10.4	78	9.38	13.2
BB13397		0.26	0.005	0.11	5.77	26.9	760	2.59	0.24	1.10	0.20	102.00	9.0	76	9.32	12.9
BB13398		0.24	0.008	0.27	5.65	67.8	800	3.16	0.19	1.43	0.24	111.50	9.9	85	11.85	13.6
BB13399		0.24	0.004	0.19	6.04	52.2	810	2.82	0.20	1.16	0.20	100.00	10.0	88	13.45	14.9
BB13400		0.24	0.006	1.21	6.39	257.0	1000	5.84	0.30	2.10	0.56	175.50	13.7	109	19.85	17.8
BB29956		0.26	0.007	0.17	5.75	28.9	1660	1.84	0.53	0.52	0.29	89.20	16.3	60	9.49	28.8
BB29957		0.34	0.006	0.26	4.82	11.3	1950	1.64	0.14	0.52	0.28	57.50	12.8	52	10.75	19.9
BB29958		0.30	0.017	0.20	5.82	12.9	1100	1.57	0.18	0.61	0.24	78.00	8.6	64	7.77	20.0
BB29959		0.30	0.005	0.51	5.46	11.6	1100	1.46	0.24	0.46	0.45	54.00	10.2	65	16.10	18.8
BB29960		0.30	0.013	0.25	5.30	9.2	1350	1.29	0.20	0.51	0.30	56.50	9.1	61	12.15	20.5

Comments: NSS is non-sufficient sample.

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Project: HOPEFULL

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CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
BB09884		4.88	22.10	0.30	5.2	0.083	3.18	80.3	37.4	0.84	1350	4.61	0.16	22.4	77.4	1030
BB09885		3.73	14.05	0.21	2.8	0.051	1.50	37.5	28.7	0.65	949	2.57	0.77	13.5	30.4	660
BB09886		4.39	13.35	0.22	2.3	0.047	1.20	31.7	27.5	0.65	478	1.85	0.75	11.6	20.0	450
BB09887		2.02	14.15	0.15	3.0	0.040	1.29	29.8	15.0	0.42	191	1.88	0.64	12.9	13.6	990
BB09888		3.70	13.90	0.20	2.5	0.049	1.46	29.5	24.1	0.65	486	2.05	0.73	12.0	22.5	870
BB09889		3.43	17.85	0.25	3.6	0.067	1.87	43.8	29.9	0.71	742	2.37	0.73	16.6	30.3	900
BB09976		4.25	11.80	0.21	2.8	0.056	1.14	37.1	32.0	0.73	779	2.72	0.91	12.2	54.9	1170
BB09977		5.59	15.30	0.28	3.5	0.073	1.79	47.5	37.5	0.78	577	3.29	0.40	15.7	52.0	1560
BB09978		4.21	13.65	0.24	3.4	0.056	1.51	44.7	63.1	0.56	662	2.56	0.61	13.0	32.9	1200
BB09979		4.72	12.80	0.22	2.7	0.070	0.99	36.2	24.2	0.49	336	3.95	0.55	11.2	21.1	1550
BB09980		5.00	12.70	0.23	2.5	0.059	1.27	36.9	33.7	0.68	978	2.52	0.72	13.2	39.5	1100
BB09981		8.67	16.15	0.32	3.4	0.078	1.69	50.4	79.6	0.46	2920	3.66	0.34	16.5	90.5	1930
BB09982		3.10	14.20	0.18	2.6	0.041	1.21	27.4	18.7	0.43	305	2.37	0.64	13.6	14.8	800
BB09983		4.02	10.85	0.24	3.9	0.045	1.10	52.6	23.6	0.78	605	1.96	1.00	14.2	36.0	1230
BB09984		4.58	13.30	0.22	2.7	0.051	1.19	31.7	40.3	0.63	438	3.42	0.63	12.9	37.6	980
BB09985		2.93	11.65	0.15	2.4	0.038	1.07	21.7	23.8	0.52	303	2.04	0.84	10.2	16.1	990
BB09986		3.95	13.85	0.19	2.6	0.049	1.24	27.7	30.4	0.78	470	2.44	0.95	12.1	22.9	950
BB09987		4.28	13.75	0.19	2.4	0.058	1.28	27.6	39.1	0.89	602	2.45	1.02	12.1	32.8	790
BB09988		4.79	10.95	0.24	2.7	0.042	1.09	39.1	35.2	0.70	777	2.09	0.84	11.9	31.8	1260
BB09989		3.52	11.10	0.20	2.9	0.043	1.18	40.7	31.9	0.71	1105	1.47	0.94	12.6	26.9	1040
BB09990		4.07	10.20	0.21	2.4	0.039	1.01	32.3	31.1	0.55	549	2.10	0.62	10.7	23.6	1050
BB09991		6.18	13.15	0.34	3.0	0.056	1.35	99.7	43.5	0.64	1340	4.57	0.69	15.7	59.2	1500
BB09992		4.52	18.90	0.27	1.2	0.053	2.47	51.5	35.7	0.52	598	3.64	0.22	15.2	42.3	800
BB09993		6.23	24.40	0.36	4.7	0.085	2.00	89.1	49.8	0.87	1815	6.15	0.70	42.2	33.1	1670
BB09994		6.35	27.40	0.47	8.7	0.083	2.31	141.0	47.3	0.80	2100	5.13	0.90	94.3	10.1	1820
BB09995		5.84	22.30	0.40	7.8	0.062	1.98	126.3	36.6	0.71	1680	3.49	0.79	54.3	10.6	1230
BB09996		7.22	28.10	0.51	8.4	0.082	2.74	145.0	45.9	1.14	2600	3.61	1.22	72.7	9.1	2140
BB09997		3.84	20.30	0.31	4.6	0.036	1.50	102.0	24.5	0.51	523	5.12	0.65	38.3	9.1	1000
BB13394		3.91	20.10	0.26	3.5	0.056	1.42	75.9	53.3	0.80	788	7.04	0.94	36.4	13.9	1280
BB13395		4.01	15.95	0.24	2.7	0.048	1.41	43.0	34.9	1.11	828	3.47	0.99	20.5	19.0	1470
BB13396		3.57	14.60	0.23	2.7	0.044	1.25	35.2	24.8	0.93	534	1.83	1.01	16.9	17.6	1070
BB13397		3.22	13.35	0.22	2.2	0.038	1.22	42.4	26.9	0.87	500	1.84	1.03	14.3	17.8	1200
BB13398		3.43	14.00	0.25	2.3	0.046	1.44	43.1	27.8	1.07	583	1.73	1.04	18.3	16.4	1650
BB13399		3.76	14.95	0.24	2.2	0.049	1.40	39.9	25.6	0.97	645	2.49	1.03	16.9	17.6	1480
BB13400		4.30	16.70	0.28	2.5	0.071	2.26	85.3	37.2	1.37	900	2.59	1.06	32.2	15.7	2830
BB29956		5.96	13.85	0.26	2.8	0.035	1.41	34.3	17.4	0.52	1625	2.93	0.71	10.9	45.7	900
BB29957		3.69	11.15	0.21	2.2	0.034	1.16	27.2	17.2	0.44	841	1.41	0.61	9.8	28.2	870
BB29958		3.44	13.85	0.21	2.6	0.040	1.26	31.4	22.3	0.65	358	1.35	0.87	11.3	25.4	420
BB29959		3.89	14.70	0.24	2.6	0.042	1.32	26.8	25.8	0.55	517	2.19	0.65	12.1	20.6	620
BB29960		3.46	13.40	0.20	2.5	0.036	1.49	28.0	15.9	0.55	537	1.91	0.64	11.3	21.3	1020

Comments: NSS is non-sufficient sample.

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Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
BB09884		42.4	192.5	0.002	0.11	9.21	4	3.0	79.8	1.34	0.11	18.6	0.555	1.37	4.8	201
BB09885		18.8	86.0	<0.002	0.04	3.80	3	1.9	141.5	0.80	0.06	10.3	0.403	0.73	2.5	139
BB09886		15.7	69.2	<0.002	0.02	1.87	2	1.7	125.5	0.68	0.07	7.7	0.364	0.58	1.9	127
BB09887		12.2	70.3	<0.002	0.04	1.61	3	2.2	113.5	0.81	0.05	7.7	0.419	0.69	2.4	122
BB09888		16.7	79.7	<0.002	0.04	2.06	3	1.9	122.0	0.71	0.06	7.6	0.390	0.63	2.1	133
BB09889		19.7	119.0	<0.002	0.02	2.92	3	2.6	142.5	1.01	0.08	12.0	0.438	0.83	3.1	145
BB09976		18.8	61.0	<0.002	0.09	3.50	3	1.7	162.5	0.77	0.07	9.7	0.413	0.59	2.5	114
BB09977		30.4	126.0	<0.002	0.14	11.65	4	2.1	97.8	0.93	0.09	14.3	0.439	1.09	3.8	128
BB09978		26.7	107.5	<0.002	0.04	14.20	4	2.0	122.5	0.75	0.07	12.9	0.366	1.04	3.9	114
BB09979		17.8	54.7	<0.002	0.07	13.20	4	1.7	107.5	0.66	0.11	9.4	0.387	0.72	2.5	145
BB09980		22.4	68.1	<0.002	0.06	13.95	3	2.9	136.5	0.79	0.08	9.6	0.429	0.77	2.3	126
BB09981		39.4	112.5	<0.002	0.10	45.80	5	3.6	122.0	0.97	0.12	14.1	0.437	1.90	3.5	131
BB09982		13.8	59.7	<0.002	0.04	3.26	3	2.2	111.5	0.83	0.08	7.2	0.477	0.65	2.1	150
BB09983		14.2	53.6	<0.002	0.05	4.39	3	1.7	182.0	0.90	0.05	13.2	0.484	0.45	3.4	113
BB09984		16.4	65.2	<0.002	0.07	8.40	3	1.8	114.5	0.79	0.09	8.4	0.410	0.66	2.3	133
BB09985		20.9	50.2	<0.002	0.08	1.81	3	1.9	136.0	0.62	0.06	5.9	0.349	0.53	2.1	106
BB09986		16.0	65.5	<0.002	0.05	1.70	3	1.9	148.0	0.75	0.08	7.7	0.418	0.63	2.2	134
BB09987		18.5	68.1	<0.002	0.04	1.90	3	2.0	156.0	0.75	0.06	8.1	0.405	0.67	2.2	137
BB09988		15.3	51.8	<0.002	0.10	6.75	3	1.5	155.0	0.72	0.06	10.1	0.407	0.46	2.5	107
BB09989		14.2	57.6	<0.002	0.02	5.99	3	1.6	187.5	0.77	<0.05	10.2	0.399	0.42	2.7	110
BB09990		15.2	47.8	<0.002	0.05	13.55	3	1.4	143.0	0.62	0.06	8.1	0.339	0.37	2.3	95
BB09991		28.7	77.0	<0.002	0.05	52.90	4	2.0	152.0	0.97	0.10	13.9	0.397	1.21	4.1	117
BB09992		26.0	180.0	<0.002	0.01	32.70	3	2.9	79.0	0.91	0.06	18.8	0.391	1.50	6.5	125
BB09993		75.0	159.0	<0.002	0.09	24.30	3	9.5	187.5	2.12	0.09	51.6	0.455	1.48	12.8	130
BB09994		63.0	178.0	<0.002	0.06	9.90	4	8.1	309.0	3.79	0.07	117.5	0.493	1.50	22.5	86
BB09995		43.1	152.0	<0.002	0.02	14.15	3	7.0	256.0	2.73	0.05	151.5	0.440	1.59	17.5	86
BB09996		43.4	197.5	<0.002	0.01	8.21	4	7.7	308.0	3.46	<0.05	94.6	0.525	1.34	17.1	88
BB09997		45.0	137.0	<0.002	0.02	26.60	3	4.5	174.5	1.95	0.15	42.2	0.411	2.00	15.8	88
BB13394		27.8	112.5	<0.002	0.05	4.53	3	7.4	221.0	2.04	<0.05	46.9	0.414	0.93	23.1	111
BB13395		22.4	105.0	<0.002	0.04	3.36	2	4.6	218.0	1.22	0.05	29.0	0.455	0.77	12.4	129
BB13396		15.9	64.5	<0.002	0.03	2.48	2	3.1	186.0	1.12	<0.05	22.0	0.430	0.61	5.3	121
BB13397		14.2	66.2	<0.002	0.02	3.36	2	2.7	191.5	0.86	0.05	20.7	0.387	0.56	7.9	110
BB13398		22.3	99.2	<0.002	0.03	12.10	2	5.6	232.0	1.03	<0.05	23.9	0.443	0.76	5.5	119
BB13399		17.9	98.3	<0.002	0.03	10.80	3	5.1	204.0	0.96	<0.05	21.6	0.447	0.79	5.1	130
BB13400		73.0	174.5	<0.002	0.03	55.10	3	14.9	377.0	1.77	<0.05	41.8	0.503	1.24	7.3	125
BB29956		14.4	67.8	<0.002	0.02	12.20	3	1.6	125.5	0.69	0.05	12.9	0.336	0.68	2.9	152
BB29957		15.4	57.2	<0.002	0.04	6.87	3	1.3	114.0	0.59	<0.05	10.3	0.294	0.65	2.1	102
BB29958		12.8	62.6	<0.002	0.02	2.85	2	1.6	137.5	0.70	<0.05	10.7	0.359	0.54	2.1	114
BB29959		16.5	102.0	<0.002	0.04	2.88	3	1.8	108.0	0.74	0.06	10.1	0.370	0.64	2.2	125
BB29960		12.4	92.9	<0.002	0.05	2.70	3	1.7	108.5	0.69	0.06	9.6	0.353	0.54	2.1	183

Comments: NSS is non-sufficient sample.

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VANCOUVER BC V6B 1L8

Finalized Date: 13-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method Analyte Units LOR	ME-MS61U W ppm 0.1	ME-MS61U Y ppm 0.1	ME-MS61U Zn ppm 2	ME-MS61U Zr ppm 0.5
BB09884		2.4	42.4	185	172.5
BB09885		1.5	17.4	84	95.3
BB09886		1.3	12.1	62	66.2
BB09887		1.4	13.4	42	87.5
BB09888		1.4	13.3	77	84.0
BB09889		1.8	22.5	87	102.8
BB09976		1.5	19.2	128	78.7
BB09977		2.1	28.3	178	103.0
BB09978		2.1	31.5	104	99.5
BB09979		1.7	15.2	93	91.5
BB09980		2.5	16.3	144	72.1
BB09981		6.5	45.5	284	98.2
BB09982		1.8	11.6	52	78.9
BB09983		2.2	23.8	111	116.5
BB09984		1.8	15.1	102	89.8
BB09985		1.2	10.9	56	66.7
BB09986		1.4	13.1	78	84.0
BB09987		1.4	14.1	107	81.7
BB09988		2.3	17.6	133	89.6
BB09989		3.2	20.5	107	77.4
BB09990		4.1	16.7	90	80.5
BB09991		12.3	28.6	132	86.4
BB09992		5.2	20.0	152	30.9
BB09993		8.8	23.7	208	113.0
BB09994		11.0	40.0	216	228.0
BB09995		27.0	32.0	175	221.0
BB09996		10.7	43.5	230	212.0
BB09997		14.1	16.5	87	128.5
BB13394		6.3	19.3	116	102.5
BB13395		10.4	15.9	107	77.5
BB13396		2.1	16.8	76	77.9
BB13397		2.4	14.2	80	63.8
BB13398		2.6	16.2	97	55.5
BB13399		3.3	14.9	93	54.1
BB13400		6.0	21.4	178	55.8
BB29956		1.4	19.2	119	77.0
BB29957		1.7	12.3	78	59.5
BB29958		1.2	10.6	73	70.2
BB29959		1.3	9.7	109	82.2
BB29960		1.1	10.1	107	67.1

Comments: NSS is non-sufficient sample.

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Finalized Date: 13-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
BB29961		0.40	0.007	0.42	7.01	11.7	2280	2.26	0.32	0.35	0.52	131.50	22.7	78	26.50	44.6
BB29962		0.40	0.006	0.29	7.21	12.5	2400	2.84	0.29	0.40	0.53	117.00	21.6	78	20.50	38.9
BB36794		0.38	0.004	0.20	6.84	12.3	1480	1.59	0.26	0.56	0.26	63.40	16.1	72	12.20	24.0
BB36795		0.52	0.005	0.28	6.54	12.5	1490	1.59	0.23	0.58	0.31	80.00	15.7	71	10.60	23.4
BB36796		0.54	0.009	0.18	6.34	9.7	1490	1.51	0.20	0.68	0.26	93.20	14.0	75	10.45	21.6
BB36797		0.32	0.009	0.27	6.83	12.5	1650	1.65	0.25	0.58	0.43	87.60	29.7	76	14.75	22.9
BB36798		0.28	0.005	0.58	6.98	11.3	1840	1.49	0.29	0.39	0.31	63.90	7.6	77	19.85	25.6
BB36799		0.38	0.007	0.23	6.93	16.3	2240	1.66	0.31	0.47	0.17	84.10	11.2	81	21.20	26.3
BB36800		0.46	0.012	0.40	7.08	15.7	2620	2.00	0.29	0.56	0.65	102.50	17.5	80	17.45	41.8
BB36801		0.44	0.009	1.38	7.36	27.2	3140	2.17	0.12	0.22	0.72	79.70	10.6	144	18.75	69.2
BB36802		0.42	0.005	1.03	6.07	19.7	2580	1.81	0.20	0.71	0.52	79.80	8.4	86	11.25	37.1
BB36803		0.32	0.006	0.05	4.47	9.4	960	0.82	0.20	0.55	0.13	62.10	4.2	57	6.27	14.0
BB36804		0.36	0.013	0.40	5.96	17.1	2470	1.55	0.25	0.61	0.28	76.60	6.8	72	16.15	35.2
BB36805		0.32	0.006	0.55	6.34	23.0	4620	1.82	0.29	0.73	0.80	68.50	13.3	69	20.20	54.0
BB36806		0.32	0.007	0.34	5.71	20.0	1770	1.45	0.24	0.63	0.33	71.90	6.7	68	14.65	34.8
BB36807		0.38	0.006	0.37	5.97	23.4	1730	1.65	0.24	0.78	0.51	79.70	10.6	80	15.90	49.8
BB36808		0.38	0.010	0.33	6.31	24.0	1570	1.55	0.30	0.63	0.35	68.00	11.3	78	14.70	36.7
BB39832		0.20	0.004	0.11	4.95	12.8	700	1.01	0.21	0.52	0.22	50.00	5.9	57	3.79	13.7
BB39833		0.20	0.005	0.35	5.00	12.0	770	0.94	0.22	0.50	0.17	53.30	5.2	57	4.46	13.4
BB39834		0.28	0.006	0.37	5.25	14.6	790	1.13	0.22	0.68	0.21	66.70	8.4	66	4.09	21.7
BB39835		0.34	0.011	0.25	6.68	19.7	980	1.56	0.32	0.59	0.22	53.00	10.7	74	8.21	29.9
BB39836		0.38	0.005	0.25	5.14	17.6	880	1.50	0.23	0.51	0.25	64.70	9.3	63	7.96	28.8
BB39837		0.36	0.008	0.39	5.80	22.7	960	2.11	0.26	0.63	0.63	78.90	18.4	63	8.32	46.6
BB39838		0.32	0.007	0.15	6.19	14.1	960	1.56	0.26	0.73	0.24	61.50	10.7	73	6.42	29.6
BB39839		0.32	0.003	0.19	5.58	11.9	830	1.53	0.20	0.77	0.30	59.50	8.4	58	5.12	21.1
BB39840		0.24	0.009	1.33	5.89	31.9	1090	2.48	0.38	0.51	0.96	74.40	14.9	64	10.10	50.7
BB39841		0.34	0.003	0.34	6.46	17.5	1180	2.36	0.26	0.75	0.45	67.90	14.1	71	10.05	42.8
BB39842		0.28	0.015	0.19	6.05	17.7	860	1.60	0.20	0.64	0.36	54.20	12.2	67	5.33	25.5
BB39843		0.44	0.010	0.58	5.43	43.0	1750	3.62	0.22	4.90	0.71	59.90	15.9	49	8.42	47.4
BB39844		0.38	0.002	0.51	5.76	22.3	1140	2.02	0.30	0.51	0.52	63.90	15.0	64	12.90	36.3
BB39845		0.32	0.002	0.52	5.91	22.4	1370	1.90	0.39	0.35	0.31	72.40	13.6	74	13.65	41.5
BB39846		0.36	0.008	0.30	5.34	12.5	1100	1.21	0.32	0.34	0.12	66.10	7.3	66	14.75	24.8
BB39847		0.28	0.010	0.66	4.92	8.0	1230	1.45	0.25	0.38	0.57	56.20	19.8	51	9.20	33.4
BB39848		0.44	0.004	0.39	6.06	11.6	1490	1.58	0.25	0.56	0.38	67.70	13.1	69	9.11	26.5
BB39931		0.32	0.008	0.37	6.37	149.0	780	4.69	0.36	1.07	0.43	113.00	9.3	59	23.50	14.6
BB39932		0.36	0.007	0.32	5.92	165.5	730	5.38	0.33	1.07	0.43	124.50	11.1	54	21.60	14.5
BB39933		0.52	0.005	0.38	8.42	180.5	700	9.69	0.57	1.47	0.55	202.00	10.9	48	38.70	11.2
BB39934		0.36	0.008	0.29	8.45	139.5	590	7.01	0.35	0.93	0.77	135.00	8.7	56	44.00	16.7
CC13501		0.46	0.010	0.52	7.86	472.0	1760	9.38	3.73	3.49	0.29	248.00	16.1	99	37.60	52.3
CC13502		0.44	0.008	0.65	8.24	618.0	1560	10.10	3.69	3.48	0.38	240.00	19.2	117	40.20	69.3

Comments: NSS is non-sufficient sample.

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Project: HOPEFULL

Finalized Date: 13-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
BB29961		4.49	18.60	0.30	4.0	0.055	2.32	50.1	17.6	0.57	1205	3.38	0.34	16.2	42.1	1370
BB29962		5.02	18.45	0.27	4.0	0.054	2.23	45.5	20.9	0.64	1395	3.31	0.46	16.9	40.4	1060
BB36794		3.85	16.35	0.21	2.7	0.048	1.70	31.1	23.5	0.75	701	2.33	0.78	12.5	24.3	910
BB36795		3.79	15.65	0.22	2.8	0.047	1.63	31.8	22.6	0.75	660	2.17	0.80	12.6	25.3	770
BB36796		3.36	15.20	0.23	3.0	0.043	1.77	36.5	18.6	0.71	776	1.78	0.77	13.5	24.1	940
BB36797		3.73	16.75	0.23	3.0	0.050	1.72	34.6	22.1	0.73	1415	2.42	0.76	13.6	25.9	1030
BB36798		3.38	17.50	0.21	3.0	0.048	1.78	32.2	18.3	0.64	352	3.06	0.60	13.5	19.4	1150
BB36799		4.40	17.70	0.24	3.3	0.059	1.86	34.0	19.4	0.66	729	4.91	0.62	14.1	20.4	1120
BB36800		4.03	17.20	0.26	3.6	0.056	1.86	40.2	20.7	0.71	759	5.98	0.69	15.1	33.8	1360
BB36801		3.69	21.60	0.28	5.0	0.072	2.14	43.7	22.0	0.56	195	6.81	0.13	49.1	48.8	3830
BB36802		3.13	15.80	0.20	3.0	0.047	1.53	44.5	22.3	0.60	321	4.76	0.63	18.9	34.7	1510
BB36803		2.11	12.75	0.16	2.4	0.032	1.05	32.0	12.9	0.41	219	1.21	0.68	11.7	13.2	540
BB36804		3.27	15.50	0.20	2.7	0.053	1.56	38.5	18.6	0.61	338	4.64	0.65	13.2	24.6	950
BB36805		4.02	15.30	0.21	2.8	0.058	1.35	34.0	21.6	0.64	660	3.69	0.79	11.6	39.6	1590
BB36806		3.13	15.15	0.20	2.7	0.052	1.41	36.9	19.8	0.61	324	3.05	0.69	12.5	22.4	1090
BB36807		3.82	14.70	0.21	3.0	0.056	1.40	41.9	22.0	0.71	503	2.79	0.76	13.0	28.9	1180
BB36808		4.19	16.55	0.21	2.6	0.057	1.47	35.0	25.3	0.71	585	2.77	0.73	12.4	29.5	1270
BB39832		2.88	13.15	0.16	1.8	0.040	0.96	24.7	22.5	0.47	357	1.28	0.75	9.9	15.0	670
BB39833		3.05	16.40	0.09	2.2	0.037	1.15	27.4	21.1	0.42	275	2.07	0.78	11.8	13.7	460
BB39834		3.72	15.25	0.10	2.2	0.041	1.18	34.8	26.4	0.56	377	1.76	0.91	12.4	20.1	600
BB39835		5.30	20.30	0.11	2.2	0.054	1.44	28.2	38.0	0.72	428	3.37	0.91	13.3	27.8	580
BB39836		3.44	14.20	0.10	2.1	0.042	1.13	34.0	23.2	0.54	351	2.01	0.66	10.9	23.2	660
BB39837		4.15	14.80	0.12	2.5	0.058	1.20	40.7	26.2	0.68	452	2.57	0.68	11.3	44.4	1010
BB39838		4.05	15.90	0.09	2.4	0.044	1.34	32.3	24.7	0.81	492	2.27	0.92	11.9	27.4	1120
BB39839		3.01	14.55	0.09	2.1	0.040	1.15	32.4	23.7	0.69	352	1.59	0.94	10.4	22.6	1080
BB39840		5.11	16.40	0.13	2.6	0.067	1.31	38.1	23.4	0.54	1225	3.12	0.64	12.6	43.6	1340
BB39841		4.62	15.20	0.11	2.2	0.046	1.37	34.5	30.9	0.84	472	2.26	0.89	11.6	33.2	900
BB39842		3.90	13.80	0.10	1.9	0.045	1.18	28.3	36.8	0.69	469	1.84	0.90	10.2	27.6	660
BB39843		9.75	15.35	0.16	2.4	0.038	1.55	31.1	11.9	2.05	2720	1.13	0.18	11.2	41.7	1250
BB39844		4.76	16.45	0.12	2.2	0.043	1.32	32.1	26.4	0.57	564	2.07	0.62	11.6	32.3	1330
BB39845		5.77	19.50	0.13	2.6	0.052	1.59	37.4	21.4	0.47	852	3.09	0.38	13.9	34.9	1370
BB39846		2.87	20.00	0.09	3.0	0.040	1.51	34.4	15.6	0.35	264	2.79	0.51	15.0	21.2	820
BB39847		3.40	13.65	0.09	2.3	0.040	1.38	27.0	16.3	0.48	1065	2.03	0.56	9.7	23.6	2580
BB39848		3.87	17.30	0.11	2.4	0.046	1.67	35.4	26.8	0.63	583	2.01	0.77	12.7	28.7	770
BB39931		3.28	18.10	0.13	2.9	0.066	1.38	71.1	74.1	0.75	715	3.84	1.17	26.3	18.2	1170
BB39932		3.05	18.35	0.15	3.1	0.051	1.33	71.6	74.2	0.69	924	5.68	1.12	27.1	18.5	1340
BB39933		3.98	26.10	0.16	3.8	0.077	1.91	103.5	92.0	0.92	900	2.94	1.09	56.7	11.1	1410
BB39934		3.77	26.80	0.14	3.1	0.063	1.45	76.0	105.5	0.79	881	5.19	0.95	43.7	11.5	1480
CC13501		4.03	20.60	0.27	2.0	0.085	5.23	132.0	49.8	1.82	963	1.37	0.93	34.9	13.0	3990
CC13502		4.97	21.70	0.25	2.6	0.106	4.32	124.5	59.8	2.16	1145	1.77	0.93	39.1	16.1	4210

Comments: NSS is non-sufficient sample.

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Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
BB29961		30.6	145.5	<0.002	0.08	5.03	3	2.2	80.3	0.98	0.09	20.1	0.443	0.90	3.5	161
BB29962		23.6	133.0	<0.002	0.03	6.17	3	2.3	92.2	1.01	0.08	17.6	0.464	0.89	3.5	156
BB36794		16.4	103.5	<0.002	0.04	2.03	3	2.0	127.5	0.76	0.07	11.6	0.394	0.65	2.5	140
BB36795		15.5	98.0	<0.002	0.03	2.20	3	1.9	132.5	0.76	0.06	11.9	0.385	0.62	2.4	133
BB36796		13.6	81.8	<0.002	0.03	2.48	3	1.8	135.5	0.82	0.06	13.5	0.431	0.56	2.6	135
BB36797		16.1	107.5	<0.002	0.04	2.41	3	2.0	130.0	0.86	0.05	12.1	0.426	0.66	2.6	144
BB36798		16.0	117.5	<0.002	0.08	2.38	3	2.1	107.5	0.81	0.06	12.2	0.416	0.77	2.9	156
BB36799		17.1	116.5	<0.002	0.13	3.35	3	2.2	115.5	0.84	0.08	12.9	0.455	0.84	2.8	170
BB36800		18.4	113.5	<0.002	0.14	3.74	4	2.1	137.5	0.92	0.10	15.4	0.451	0.75	3.6	195
BB36801		15.9	117.0	0.011	0.34	17.55	12	2.1	342.0	3.12	0.13	6.8	1.245	1.44	10.5	544
BB36802		26.3	89.6	<0.002	0.14	9.58	5	1.6	194.5	1.30	0.08	12.2	0.595	0.95	4.7	244
BB36803		11.6	59.6	<0.002	0.03	1.67	2	1.4	113.5	0.86	0.05	9.0	0.415	0.47	2.6	112
BB36804		21.3	98.4	<0.002	0.14	5.12	3	1.7	139.5	0.99	0.06	13.1	0.429	0.81	3.5	136
BB36805		20.7	85.4	<0.002	0.21	6.82	3	1.5	159.5	0.88	0.07	11.9	0.407	0.77	3.7	130
BB36806		18.6	90.1	<0.002	0.12	4.48	3	1.6	138.0	0.91	0.07	11.6	0.401	0.73	3.4	127
BB36807		17.7	83.6	<0.002	0.10	5.69	4	1.5	150.5	1.03	<0.05	13.9	0.445	0.74	3.9	130
BB36808		20.8	90.0	<0.002	0.08	4.64	3	1.7	138.5	0.91	0.07	12.0	0.433	0.91	3.4	142
BB39832		14.5	61.9	<0.002	0.03	1.35	2	1.4	117.5	0.75	<0.05	7.9	0.350	0.47	2.2	103
BB39833		13.7	68.9	<0.002	0.02	1.53	1	1.8	117.0	0.86	0.05	7.6	0.419	0.53	2.4	128
BB39834		14.2	71.3	<0.002	0.03	1.48	1	1.7	142.0	0.88	0.06	9.5	0.430	0.47	2.4	123
BB39835		16.1	89.7	<0.002	0.03	4.29	1	2.2	136.5	0.96	0.08	8.1	0.458	0.72	2.3	163
BB39836		22.2	68.5	<0.002	0.03	9.38	<1	1.9	115.0	0.80	0.05	9.3	0.364	0.54	2.4	108
BB39837		47.8	70.0	<0.002	0.04	10.75	2	3.2	133.5	0.88	0.06	11.3	0.394	0.58	3.2	168
BB39838		15.1	71.8	<0.002	0.05	3.52	1	1.8	139.5	0.88	0.06	9.0	0.451	0.52	2.6	132
BB39839		17.0	62.0	<0.002	0.05	2.58	1	1.6	156.0	0.76	<0.05	8.6	0.354	0.45	3.0	104
BB39840		73.3	75.6	<0.002	0.06	18.70	2	4.3	140.0	0.91	0.07	12.3	0.397	0.81	3.4	147
BB39841		19.2	76.7	<0.002	0.07	5.46	1	1.6	143.0	0.86	0.07	9.8	0.398	0.59	2.5	115
BB39842		17.0	65.3	<0.002	0.04	3.41	1	1.6	138.5	0.76	<0.05	8.6	0.344	0.50	2.1	106
BB39843		19.5	86.9	<0.002	0.05	26.80	1	2.0	197.5	0.79	0.06	10.1	0.300	1.07	2.0	93
BB39844		19.9	85.8	<0.002	0.06	11.55	1	1.8	112.5	0.84	0.08	9.7	0.375	0.88	2.4	118
BB39845		25.9	117.5	<0.002	0.06	10.70	1	2.1	84.0	1.01	0.11	11.6	0.419	1.02	3.1	135
BB39846		15.2	108.5	<0.002	0.05	4.98	<1	2.5	101.5	1.11	0.08	9.3	0.496	0.94	2.9	153
BB39847		26.2	78.4	<0.002	0.12	1.80	2	1.5	95.9	0.70	0.06	9.4	0.299	0.47	2.7	92
BB39848		19.3	98.5	<0.002	0.04	3.58	<1	2.0	128.0	0.95	0.05	10.1	0.409	0.63	2.6	124
BB39931		36.7	88.8	<0.002	0.05	11.65	<1	5.9	222.0	1.84	<0.05	33.3	0.397	0.78	29.3	103
BB39932		29.0	91.8	<0.002	0.06	5.62	<1	5.4	227.0	1.87	<0.05	35.1	0.368	0.78	36.7	93
BB39933		42.7	160.0	<0.002	0.02	5.39	<1	12.0	305.0	4.23	<0.05	55.7	0.419	1.23	16.5	92
BB39934		39.4	114.0	<0.002	0.07	5.61	<1	7.3	267.0	3.04	<0.05	51.5	0.427	0.95	18.0	102
CC13501		41.7	341.0	<0.002	<0.01	28.90	1	23.4	689.0	2.46	<0.05	56.3	0.413	2.22	17.6	108
CC13502		37.6	297.0	<0.002	0.01	33.70	<1	22.8	639.0	2.67	<0.05	55.9	0.530	1.94	22.9	137

Comments: NSS is non-sufficient sample.

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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 13-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method Analyte Units LOR	ME-MS61U W ppm 0.1	ME-MS61U Y ppm 0.1	ME-MS61U Zn ppm 2	ME-MS61U Zr ppm 0.5
BB29961		1.7	24.3	144	110.5
BB29962		1.9	18.6	134	132.0
BB36794		1.3	12.7	96	75.2
BB36795		1.3	16.6	97	87.4
BB36796		1.3	14.0	92	94.3
BB36797		1.4	14.2	101	84.8
BB36798		1.5	13.4	78	82.6
BB36799		1.5	12.3	94	88.9
BB36800		1.5	18.4	135	102.5
BB36801		1.8	37.9	185	172.5
BB36802		1.7	20.6	135	91.9
BB36803		1.2	11.7	45	74.4
BB36804		1.5	16.7	85	86.9
BB36805		1.5	16.9	108	89.8
BB36806		1.8	15.4	72	83.8
BB36807		1.6	18.7	94	85.0
BB36808		1.6	15.5	101	80.3
BB39832		1.2	9.6	50	56.8
BB39833		1.4	10.6	42	79.7
BB39834		1.5	12.8	58	77.4
BB39835		1.5	11.8	80	78.1
BB39836		2.1	12.3	74	75.4
BB39837		2.2	16.8	138	89.4
BB39838		1.4	13.3	89	84.5
BB39839		1.8	14.0	73	75.2
BB39840		3.7	19.0	191	91.2
BB39841		1.6	15.2	104	75.2
BB39842		1.3	11.4	95	66.6
BB39843		4.1	32.5	197	88.3
BB39844		2.3	16.1	118	82.4
BB39845		2.0	15.4	126	98.1
BB39846		2.3	12.6	85	107.5
BB39847		1.1	13.9	99	82.4
BB39848		1.6	14.4	95	87.3
BB39931		3.8	24.4	145	97.2
BB39932		3.1	25.9	103	105.0
BB39933		6.8	33.2	165	115.0
BB39934		9.3	23.3	127	100.5
CC13501		2.7	41.3	101	46.7
CC13502		4.2	41.7	124	61.8

Comments: NSS is non-sufficient sample.

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Project: HOPEFULL

Finalized Date: 13-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC13503		0.44	0.005	0.54	8.08	316.0	1410	8.74	2.43	3.09	0.30	165.50	16.5	109	33.80	45.0
CC13504		0.42	0.008	0.23	5.36	184.0	790	2.61	0.54	1.24	0.26	84.80	11.5	62	9.02	24.5
CC13505		0.34	0.007	0.24	6.76	94.1	940	4.85	0.41	1.63	0.32	113.00	15.1	83	15.60	21.2
CC13506		0.44	0.006	0.29	5.80	107.5	920	3.59	0.38	1.53	0.57	102.50	13.1	63	11.40	23.6
CC13507		0.30	0.020	0.31	6.51	135.5	930	5.18	1.23	1.20	0.25	112.50	17.4	76	19.10	35.8
CC13508		0.34	0.006	0.12	5.30	105.5	820	2.37	0.30	1.36	0.30	81.00	10.7	68	8.57	20.7
CC13509		0.48	0.006	0.27	6.46	21.7	890	3.93	0.26	1.09	0.18	98.60	10.6	71	10.50	22.4
CC13510		0.50	0.006	0.13	6.19	17.0	830	5.15	0.20	1.41	0.30	124.00	11.4	66	9.54	19.2
CC13511		0.48	0.009	0.21	6.79	19.6	960	6.71	0.22	1.85	0.43	161.00	13.8	69	12.15	23.3
CC13512		0.44	0.009	0.22	6.10	30.8	780	4.36	0.29	1.02	0.19	85.90	10.0	71	11.40	18.7
CC13513		0.44	0.010	0.50	6.07	40.4	810	5.06	0.32	1.16	0.18	113.50	11.4	68	13.05	20.4
CC13514		0.30	0.008	0.36	6.63	34.6	870	4.84	0.36	1.09	0.21	96.90	12.8	70	14.35	22.1
CC13515		0.34	0.009	0.52	7.78	109.5	1150	6.07	0.37	1.20	0.69	161.00	11.7	59	47.60	25.7
CC13516		0.40	0.017	0.38	7.17	33.2	930	9.29	0.54	2.07	0.40	234.00	14.5	62	30.80	30.1
CC13517		0.34	0.007	0.15	6.02	19.6	840	6.20	0.24	1.96	0.31	188.00	12.4	59	13.55	14.4
CC13518		0.36	0.012	0.49	7.04	32.4	950	7.96	0.23	1.85	0.98	216.00	12.8	59	26.90	13.9
CC13519		0.26	0.009	0.19	6.63	17.0	920	6.66	0.22	1.84	0.24	180.50	10.4	59	17.75	12.5
CC13520		0.34	0.008	0.12	5.39	21.4	750	3.49	0.22	1.14	0.18	92.90	7.7	56	12.90	10.1
CC13521		0.36	0.009	0.27	5.89	20.4	820	5.02	0.23	1.50	0.22	123.50	10.6	65	19.05	15.7
CC13522		0.40	0.013	0.14	5.61	22.7	810	4.48	0.31	1.40	0.28	125.50	10.1	60	15.80	14.3
CC13523		0.38	0.007	0.12	5.60	24.3	780	3.43	0.21	1.33	0.31	104.00	9.7	59	12.05	15.8
CC13524		0.36	0.004	0.23	5.87	50.8	800	4.98	0.25	1.25	0.34	118.50	10.5	62	14.15	17.0
CC13525		0.32	0.003	0.18	5.72	95.1	830	3.08	0.24	1.43	0.30	113.50	11.8	67	12.30	15.7
CC13527		0.42	0.008	3.32	5.81	62.5	6900	3.48	0.21	1.08	19.65	79.30	17.4	191	9.87	120.0
CC13528		0.40	0.007	1.51	5.94	22.1	1860	1.84	0.17	1.01	0.97	74.80	10.3	82	7.92	55.5
CC13529		0.30	0.006	0.26	5.70	14.3	1740	1.23	0.23	0.74	0.31	70.30	7.6	66	8.00	17.3
CC13530		0.40	0.005	0.23	5.99	16.7	1410	1.42	0.20	0.85	0.31	70.90	8.9	66	7.81	21.0
CC13531		0.34	<0.001	0.16	5.44	14.3	1010	1.09	0.20	0.75	0.19	61.10	6.7	63	5.78	16.4
CC13532		0.38	0.004	0.12	5.50	10.2	940	0.90	0.15	0.70	0.17	47.10	6.2	59	4.23	13.1
CC13533		0.36	0.010	0.24	5.78	19.5	980	1.32	0.22	0.69	0.37	69.30	9.4	61	6.38	22.0
CC13534		0.34	0.013	0.16	5.87	19.4	1010	1.54	0.23	0.94	0.43	96.00	16.3	78	7.74	25.7
CC13535		0.36	0.012	0.16	5.77	21.7	910	1.45	0.24	0.98	0.39	102.50	15.6	82	6.16	25.5
CC13536		0.40	0.005	0.26	5.68	24.6	1140	1.68	0.22	1.01	0.80	96.40	13.5	77	6.65	31.3
CC13537		0.28	0.005	0.07	5.58	17.0	760	1.12	0.19	0.75	0.23	57.80	11.1	63	3.40	15.2
CC13538		0.36	0.011	0.24	5.97	21.0	1010	1.55	0.21	1.02	0.47	92.80	14.8	76	5.64	24.1
CC13539		0.28	0.007	0.10	5.76	20.6	880	1.39	0.23	0.84	0.38	80.60	11.7	72	5.39	22.1
CC13540		0.30	0.005	0.10	5.47	17.7	780	1.06	0.23	0.67	0.18	61.10	7.0	61	4.45	14.2
CC13541		0.38	0.005	0.10	5.53	16.0	870	1.13	0.19	0.79	0.24	66.00	8.3	60	3.82	16.6
CC13542		0.32	0.003	0.22	5.83	30.8	1050	2.15	0.28	0.47	0.74	67.00	14.3	65	15.60	35.7
CC13543		0.36	0.004	0.23	6.14	22.0	900	1.39	0.27	0.63	0.24	53.20	10.7	64	6.87	21.5

Comments: NSS is non-sufficient sample.

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Finalized Date: 13-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC13503		4.87	21.50	0.21	1.9	0.080	3.51	91.4	57.3	2.03	826	2.62	1.18	28.9	16.5	2800
CC13504		3.06	13.00	0.11	1.6	0.051	1.34	45.9	29.8	0.84	542	1.43	1.08	12.5	24.0	1310
CC13505		4.74	17.80	0.16	2.3	0.069	1.93	57.7	47.0	1.11	753	3.04	1.22	24.7	22.5	1550
CC13506		3.37	15.05	0.13	2.0	0.047	1.64	52.5	36.7	0.96	619	2.38	1.22	16.7	25.8	1490
CC13507		4.50	19.30	0.14	2.3	0.061	1.53	65.0	51.3	1.00	845	10.50	1.04	19.5	27.7	1730
CC13508		3.04	14.00	0.13	1.7	0.043	1.33	41.6	27.2	0.82	537	1.69	1.18	13.0	24.3	1330
CC13509		4.01	16.65	0.14	2.2	0.046	1.37	54.8	41.1	0.91	428	7.69	1.09	18.2	23.8	1220
CC13510		3.54	16.90	0.15	2.8	0.046	1.49	67.7	41.7	0.87	606	2.42	1.23	23.3	21.8	1230
CC13511		4.28	18.60	0.17	3.9	0.053	1.83	86.8	47.3	1.04	904	4.84	1.45	32.4	25.7	1520
CC13512		3.79	17.55	0.13	2.4	0.048	1.39	45.3	38.7	0.84	559	4.70	0.98	20.3	19.8	1170
CC13513		3.79	17.30	0.15	2.3	0.053	1.49	60.9	43.7	0.90	670	4.74	1.05	21.9	20.4	1180
CC13514		4.22	18.55	0.14	2.6	0.050	1.45	53.1	47.0	0.90	800	9.68	1.04	21.7	22.7	1340
CC13515		5.26	26.70	0.21	2.7	0.062	2.36	95.3	60.6	0.93	675	5.73	0.88	42.2	18.4	2000
CC13516		5.09	20.90	0.22	3.8	0.060	1.91	123.0	79.2	1.23	1120	5.88	1.41	52.5	24.6	2070
CC13517		4.15	17.55	0.19	3.4	0.060	1.72	93.2	47.1	0.98	910	6.03	1.41	35.6	23.0	1440
CC13518		4.95	21.10	0.19	2.9	0.068	2.18	107.0	56.4	1.06	1145	6.67	1.13	44.4	17.6	1680
CC13519		4.17	18.70	0.18	3.0	0.058	1.88	92.3	46.2	1.05	746	7.91	1.20	33.3	17.3	1360
CC13520		3.33	16.70	0.11	2.5	0.043	1.46	42.2	32.2	0.76	504	6.14	1.09	22.4	16.6	620
CC13521		3.94	16.50	0.15	2.2	0.055	1.38	62.5	48.4	0.95	694	9.92	1.15	22.6	20.3	1120
CC13522		3.88	15.90	0.15	2.2	0.056	1.48	60.4	42.8	0.91	688	6.67	1.12	22.7	21.8	1050
CC13523		3.47	14.65	0.13	2.0	0.049	1.35	50.1	39.2	0.86	602	8.82	1.17	17.3	22.3	1150
CC13524		3.93	16.35	0.15	2.3	0.109	1.49	56.6	42.7	0.91	714	4.67	1.06	23.4	21.2	1140
CC13525		3.62	15.00	0.14	2.3	0.053	1.34	51.5	35.7	0.91	673	5.15	1.17	16.6	25.9	1220
CC13527		2.99	15.85	0.22	2.8	0.065	1.49	50.2	23.4	0.54	442	57.10	0.51	16.4	190.0	4700
CC13528		3.38	14.10	0.14	2.1	0.056	1.35	36.1	21.0	0.75	403	10.55	1.04	10.3	63.0	1340
CC13529		2.70	15.40	0.12	2.4	0.048	1.35	33.3	17.0	0.60	337	2.47	0.90	11.3	19.8	1150
CC13530		3.24	15.25	0.11	2.2	0.048	1.44	33.1	21.8	0.74	392	2.19	0.95	11.2	26.1	930
CC13531		2.76	15.00	0.12	2.1	0.045	1.17	28.9	19.5	0.64	271	1.85	0.92	10.6	21.1	1020
CC13532		2.70	10.75	0.08	1.6	0.035	1.23	22.0	16.7	0.67	324	1.12	0.97	7.6	17.9	840
CC13533		3.24	15.40	0.12	2.1	0.050	1.29	32.6	24.7	0.72	388	1.90	0.92	10.8	27.9	1010
CC13534		3.89	15.40	0.15	2.7	0.055	1.32	44.5	24.5	0.77	713	2.11	0.93	12.3	35.4	1140
CC13535		3.97	15.70	0.15	2.9	0.058	1.25	47.4	25.4	0.77	819	2.08	0.96	12.8	32.8	1100
CC13536		4.01	15.05	0.19	2.6	0.059	1.38	44.4	23.4	0.76	596	2.96	0.94	12.9	35.3	1050
CC13537		3.29	13.05	0.12	1.9	0.047	1.08	27.7	24.5	0.69	502	1.31	0.96	9.2	22.7	820
CC13538		3.72	14.85	0.16	2.5	0.050	1.29	42.7	26.0	0.82	693	1.84	1.09	11.6	33.9	1020
CC13539		3.59	14.45	0.14	2.2	0.051	1.21	37.7	27.2	0.74	499	1.59	0.99	11.0	29.7	970
CC13540		3.04	14.85	0.13	2.0	0.046	1.14	29.2	22.6	0.64	298	1.53	0.89	10.1	19.3	940
CC13541		3.03	13.60	0.13	2.0	0.045	1.15	31.0	24.2	0.71	334	1.27	0.99	10.0	22.8	750
CC13542		4.02	15.85	0.14	2.3	0.066	1.08	31.7	30.2	0.55	649	3.19	0.59	10.6	34.5	1470
CC13543		3.57	16.30	0.13	1.9	0.051	1.24	24.5	30.0	0.75	444	1.98	0.98	9.6	27.5	1050

Comments: NSS is non-sufficient sample.

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Project: HOPEFULL

Finalized Date: 13-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
CC13503		32.5	258.0	<0.002	0.02	21.70	<1	16.5	579.0	1.86	<0.05	47.9	0.477	1.80	11.5	132
CC13504		21.2	71.9	<0.002	0.02	10.35	1	4.1	221.0	0.88	<0.05	28.8	0.345	0.57	4.6	94
CC13505		36.4	121.0	<0.002	0.02	13.20	<1	5.1	286.0	1.66	<0.05	22.5	0.474	0.89	5.1	133
CC13506		24.0	98.3	<0.002	0.02	7.01	<1	4.2	268.0	1.11	<0.05	21.9	0.389	0.74	5.8	106
CC13507		26.5	100.5	<0.002	0.05	4.70	1	3.5	217.0	1.30	0.05	66.7	0.436	0.85	27.4	138
CC13508		18.7	72.2	<0.002	0.02	4.77	<1	2.6	219.0	0.89	<0.05	15.9	0.356	0.52	3.9	105
CC13509		22.8	78.4	<0.002	0.04	3.75	<1	2.8	192.0	1.29	<0.05	56.4	0.421	0.65	21.9	122
CC13510		18.3	88.0	<0.002	0.02	2.50	<1	3.2	227.0	1.55	<0.05	28.5	0.417	0.59	6.6	105
CC13511		20.6	106.0	<0.002	0.01	3.09	<1	4.5	284.0	2.13	<0.05	47.6	0.473	0.71	22.2	121
CC13512		24.6	83.1	<0.002	0.03	6.40	<1	3.6	182.5	1.32	<0.05	39.3	0.418	0.67	13.7	121
CC13513		27.7	95.6	<0.002	0.02	8.79	<1	3.9	207.0	1.43	<0.05	40.4	0.413	0.72	18.1	111
CC13514		28.6	90.2	<0.002	0.05	7.12	<1	3.5	204.0	1.41	0.05	56.9	0.429	0.76	20.3	124
CC13515		30.5	171.0	<0.002	0.02	29.10	<1	5.2	368.0	2.12	<0.05	40.7	0.573	1.46	13.8	122
CC13516		29.3	123.5	<0.002	0.02	4.40	<1	6.7	289.0	3.22	<0.05	103.5	0.562	0.96	23.6	117
CC13517		22.4	110.5	<0.002	0.02	2.99	2	4.8	283.0	2.37	<0.05	59.7	0.456	0.73	20.0	104
CC13518		85.5	157.0	<0.002	0.02	19.00	2	8.1	327.0	2.73	<0.05	62.2	0.473	1.14	18.4	107
CC13519		25.4	118.5	<0.002	0.02	3.61	2	4.6	296.0	2.20	<0.05	48.0	0.451	0.77	17.5	106
CC13520		20.0	98.0	<0.002	0.02	2.52	2	3.2	204.0	1.44	0.05	21.0	0.427	0.64	5.5	111
CC13521		25.9	89.4	<0.002	0.03	3.10	2	3.3	224.0	1.40	<0.05	55.1	0.432	0.68	20.8	115
CC13522		25.8	98.0	<0.002	0.02	4.67	1	3.5	205.0	1.48	0.05	42.1	0.416	0.67	9.6	111
CC13523		20.7	81.0	<0.002	0.03	4.81	2	2.7	216.0	1.11	<0.05	34.1	0.395	0.58	10.7	102
CC13524		56.6	100.5	<0.002	0.02	10.00	1	4.0	208.0	1.52	<0.05	48.1	0.408	0.71	14.1	107
CC13525		24.7	82.5	<0.002	0.02	7.00	2	2.8	221.0	1.10	<0.05	34.1	0.417	0.59	7.6	110
CC13527		28.4	94.7	0.009	0.15	47.40	16	1.8	275.0	1.08	0.32	10.6	0.473	3.02	14.8	2260
CC13528		27.6	74.6	0.002	0.08	15.10	3	1.7	195.5	0.74	0.09	10.4	0.387	0.71	4.5	475
CC13529		14.2	79.0	<0.002	0.06	2.96	1	1.8	157.0	0.83	0.05	9.5	0.420	0.64	3.0	126
CC13530		14.9	77.7	<0.002	0.04	3.33	1	1.7	163.5	0.82	<0.05	10.0	0.405	0.60	2.8	125
CC13531		14.3	64.6	<0.002	0.04	2.28	2	1.6	152.0	0.76	0.05	8.8	0.379	0.53	2.7	114
CC13532		10.7	54.1	<0.002	0.03	1.63	2	1.2	139.5	0.55	<0.05	6.9	0.347	0.41	2.0	104
CC13533		16.1	76.4	<0.002	0.04	2.90	2	1.8	152.0	0.76	0.06	10.0	0.366	0.55	2.8	115
CC13534		17.4	72.6	<0.002	0.03	4.46	1	1.8	167.0	0.86	0.06	12.7	0.475	0.59	3.3	126
CC13535		16.3	71.5	<0.002	0.03	4.15	2	1.8	171.5	0.92	0.06	14.7	0.494	0.57	3.6	131
CC13536		16.2	78.6	<0.002	0.10	6.88	3	1.8	175.5	0.94	0.06	12.4	0.461	0.72	3.4	131
CC13537		14.2	56.3	<0.002	0.03	1.66	2	1.4	153.5	0.68	0.05	8.5	0.354	0.45	2.2	104
CC13538		15.6	71.0	<0.002	0.02	3.65	1	1.7	180.0	0.85	0.05	12.2	0.455	0.55	3.0	125
CC13539		14.9	69.2	<0.002	0.03	2.73	2	1.6	161.0	0.77	0.05	10.5	0.411	0.54	2.8	119
CC13540		13.8	61.5	<0.002	0.03	1.70	2	1.6	144.5	0.75	0.05	8.4	0.387	0.51	2.4	114
CC13541		13.0	66.3	<0.002	0.02	1.69	<1	1.5	157.0	0.74	<0.05	9.2	0.364	0.46	2.5	105
CC13542		46.1	73.2	<0.002	0.07	10.35	2	2.5	117.5	0.74	0.08	10.3	0.360	0.73	3.5	118
CC13543		19.3	69.2	<0.002	0.04	2.72	2	1.8	152.5	0.67	0.05	8.8	0.363	0.60	2.7	122

Comments: NSS is non-sufficient sample.

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CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5
CC13503		3.8	31.6	124	46.1
CC13504		1.3	17.1	90	53.5
CC13505		5.4	23.0	119	71.8
CC13506		5.8	20.6	106	63.2
CC13507		3.0	23.3	112	72.2
CC13508		2.0	17.9	85	57.6
CC13509		2.8	19.4	94	72.4
CC13510		2.1	23.6	96	85.5
CC13511		10.8	32.2	133	118.0
CC13512		3.1	17.9	90	78.7
CC13513		3.9	22.8	99	71.1
CC13514		4.5	19.9	104	80.6
CC13515		13.6	29.3	186	80.2
CC13516		12.2	40.8	153	103.0
CC13517		20.3	35.5	120	96.8
CC13518		6.3	38.7	217	73.5
CC13519		2.7	32.5	107	87.8
CC13520		3.8	19.2	77	78.5
CC13521		16.1	27.7	98	66.8
CC13522		5.8	25.2	107	64.4
CC13523		3.2	21.7	94	63.4
CC13524		5.3	25.8	128	70.3
CC13525		1.8	22.0	109	69.9
CC13527		2.6	57.7	1225	119.0
CC13528		1.5	25.2	209	75.8
CC13529		1.4	16.4	63	83.9
CC13530		1.3	17.2	78	75.0
CC13531		1.3	14.6	57	72.8
CC13532		1.0	11.1	64	53.2
CC13533		1.3	17.2	76	75.8
CC13534		1.7	21.1	102	92.7
CC13535		2.0	20.1	95	100.0
CC13536		1.5	22.2	118	90.3
CC13537		1.1	12.8	73	65.8
CC13538		1.6	21.0	95	85.1
CC13539		1.3	18.1	86	76.7
CC13540		1.2	13.7	57	68.0
CC13541		1.2	15.1	66	68.2
CC13542		2.9	19.0	119	80.9
CC13543		1.6	14.0	81	64.7

Comments: NSS is non-sufficient sample.

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Finalized Date: 13-SEP-2007
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CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC13544		0.40	0.010	0.10	5.94	17.4	780	1.31	0.22	0.77	0.31	66.20	11.4	68	3.82	17.7
CC13545		0.38	0.013	0.06	5.13	13.7	730	1.14	0.17	0.93	0.27	85.40	8.5	69	2.99	12.1
CC13546		0.32	0.004	0.11	4.76	18.3	710	1.69	0.22	0.70	0.25	73.90	7.3	59	7.09	14.0
CC13547		0.36	0.001	0.09	5.24	11.9	700	1.35	0.24	0.61	0.12	60.40	4.4	60	6.55	10.6
CC13548		0.26	0.010	0.19	6.75	26.0	840	4.85	0.39	1.00	0.22	105.50	12.5	59	20.30	14.1
CC13549		0.32	0.008	0.25	6.23	36.1	900	4.98	0.44	1.22	0.17	121.00	11.7	60	27.60	17.1
CC13550		0.40	0.007	0.16	6.54	20.7	880	4.35	0.31	1.17	0.30	110.00	12.6	64	18.80	13.9
CC13551		0.14	0.004	0.21	6.41	22.9	860	4.93	0.23	1.35	0.17	110.50	9.8	62	15.70	18.4
CC13552		0.38	0.005	0.17	6.36	15.2	1010	4.48	0.19	1.77	0.43	132.50	14.7	70	13.60	19.2
CC13553		0.22	0.009	0.13	6.30	20.5	980	5.46	0.19	1.68	0.33	138.00	15.0	70	14.35	20.1
CC13554		0.20	0.005	0.19	6.12	20.9	880	4.83	0.20	1.47	0.41	100.50	17.4	58	16.40	26.7
CC13555		0.18	0.005	0.90	7.21	113.5	1010	7.18	0.47	1.97	1.48	138.00	18.6	107	26.30	27.8
CC13556		0.28	0.005	1.07	7.37	1930.0	1160	6.77	2.22	2.77	1.94	184.50	22.1	154	34.70	35.9
CC13557		0.24	0.005	0.65	7.51	171.0	910	8.66	1.00	2.29	0.85	137.50	16.1	82	41.50	36.2
CC13558		0.32	0.007	0.46	7.74	141.5	1030	6.29	0.57	2.88	0.62	142.00	18.0	115	27.10	39.0
CC13559		0.22	0.006	0.39	7.21	163.0	890	6.98	0.67	1.60	0.32	134.00	16.9	110	38.20	27.2
CC13560		0.32	0.005	0.82	7.44	337.0	890	8.68	1.10	2.10	0.93	157.50	17.2	119	42.10	34.8
CC13561		0.46	0.004	0.55	6.76	339.0	1050	6.59	1.41	3.63	1.88	191.00	21.5	154	23.90	31.4
CC13562		0.28	0.004	0.21	7.22	104.0	1080	8.33	0.56	3.11	1.04	193.50	23.5	161	31.20	28.2
CC13563		0.38	0.006	0.99	7.17	217.0	910	7.68	1.09	2.36	1.47	156.50	19.9	116	37.80	32.7
CC13564		0.28	0.005	0.46	7.45	156.0	990	6.87	0.84	2.98	1.18	142.00	18.7	99	25.40	25.3
CC13565		0.24	0.006	0.40	8.22	125.0	780	9.94	0.99	2.91	0.87	148.00	20.2	100	63.60	39.9
CC13566		0.22	0.008	0.48	7.25	87.6	890	8.01	0.86	2.53	0.39	131.50	16.7	83	37.50	40.2
CC13567		0.22	0.008	0.28	7.17	34.4	1070	6.49	0.77	2.64	0.31	115.00	17.4	96	25.70	35.5
CC13568		0.22	0.009	0.23	7.04	113.0	980	5.08	0.99	1.71	0.40	110.50	18.8	101	20.60	44.4
CC13569		0.22	0.007	0.74	7.30	693.0	1120	7.06	2.85	2.41	0.37	134.00	20.6	120	30.80	61.5
CC13570		0.28	0.011	0.19	6.82	115.5	1110	5.32	0.83	2.90	0.23	132.50	17.7	127	20.70	30.2
CC13571		0.22	0.006	0.38	6.63	240.0	1080	4.47	1.49	1.94	0.29	101.50	17.5	104	21.50	39.1
CC13572		0.30	0.004	2.47	5.47	247.0	890	3.76	1.20	1.45	0.26	77.90	11.2	80	22.30	20.9
CC13573		0.24	0.008	0.56	5.51	644.0	820	4.88	1.65	1.70	0.15	101.00	14.4	84	24.20	30.4
CC13574		0.20	0.009	0.10	5.54	16.9	800	1.55	0.20	0.83	0.37	70.50	19.5	61	6.09	35.9
CC13575		0.20	0.007	0.36	4.57	8.1	750	0.96	0.22	0.42	0.18	52.80	4.0	49	4.88	10.0
CC13576		0.26	0.006	0.30	5.87	14.1	950	1.34	0.24	0.62	0.21	62.50	8.1	66	7.69	19.8
CC13577		0.22	0.011	0.26	5.39	13.0	900	1.47	0.18	0.71	0.27	66.80	12.6	60	5.60	22.6
CC13578		0.22	0.009	0.28	5.28	15.0	820	1.16	0.21	0.55	0.23	54.00	10.7	57	5.70	17.5
CC13579		0.24	0.014	0.27	5.01	16.1	870	1.26	0.25	0.54	0.18	72.60	7.8	62	6.61	19.4
CC13580		0.12	0.013	0.18	5.77	15.0	890	1.48	0.22	0.58	0.26	59.40	10.3	67	8.93	27.9
CC13581		0.28	0.005	0.25	5.90	13.2	820	1.73	0.20	0.65	0.41	51.60	18.0	60	6.97	23.1
CC13582		0.24	0.007	0.12	6.13	13.6	840	1.74	0.25	0.66	0.55	58.10	21.6	70	7.40	39.9
CC13583		0.18	0.005	0.33	5.32	13.0	780	1.32	0.22	0.59	0.24	53.00	10.8	58	6.82	20.7

Comments: NSS is non-sufficient sample.

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Finalized Date: 13-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC13544		3.43	14.70	0.15	2.2	0.051	1.13	31.1	27.8	0.72	589	1.61	1.01	10.3	26.2	920
CC13545		3.38	13.05	0.15	2.3	0.042	1.05	39.5	22.6	0.66	509	1.28	0.98	11.5	22.3	710
CC13546		2.80	13.85	0.13	2.4	0.044	1.15	34.7	21.4	0.56	347	1.62	0.80	12.9	19.4	930
CC13547		2.69	16.70	0.14	2.5	0.040	1.16	28.6	24.0	0.43	272	1.98	0.88	13.4	11.2	450
CC13548		4.19	19.55	0.17	2.9	0.060	1.65	52.8	44.1	0.86	932	5.34	1.03	25.3	18.6	1110
CC13549		3.93	18.25	0.19	2.6	0.056	1.44	66.7	48.5	0.84	699	7.59	1.05	20.9	21.4	1060
CC13550		4.19	18.55	0.20	2.6	0.059	1.58	55.6	49.7	0.86	866	4.97	1.10	21.3	23.1	1300
CC13551		3.83	17.80	0.16	2.2	0.059	1.75	54.9	39.1	0.93	629	1.98	1.14	20.4	19.0	1380
CC13552		3.95	17.45	0.19	2.7	0.059	1.84	61.5	39.6	1.13	762	2.40	1.29	20.7	26.1	1470
CC13553		4.22	17.75	0.18	2.4	0.054	1.88	69.5	45.5	1.14	815	3.64	1.15	22.4	23.1	1710
CC13554		3.83	16.90	0.14	1.9	0.049	1.62	61.8	44.5	1.07	826	4.68	1.05	18.4	20.2	1580
CC13555		5.32	20.10	0.18	1.8	0.234	1.93	80.0	65.4	1.84	981	2.80	0.95	29.0	20.9	2140
CC13556		6.06	21.50	0.22	2.6	0.158	2.74	98.4	60.2	2.01	1415	4.23	0.96	31.1	18.9	4010
CC13557		4.46	21.00	0.18	1.9	0.102	2.34	78.9	81.3	1.60	1010	2.64	1.17	27.2	18.8	1900
CC13558		4.80	19.95	0.19	2.5	0.163	2.22	79.7	49.0	1.98	943	2.32	1.11	22.7	24.4	2900
CC13559		4.88	20.00	0.17	1.9	0.094	1.97	83.9	49.5	1.45	994	4.07	0.93	24.2	18.5	1870
CC13560		5.19	21.10	0.22	2.0	0.122	2.22	104.0	59.0	1.87	1060	4.80	0.83	27.1	18.6	2450
CC13561		5.49	19.00	0.22	2.7	0.104	2.52	103.5	51.8	2.37	1105	1.91	1.17	33.7	25.4	4320
CC13562		5.57	20.50	0.23	2.5	0.093	2.46	101.5	86.3	2.40	1150	1.31	1.14	32.5	27.2	3940
CC13563		5.02	20.40	0.19	2.2	0.124	2.27	83.5	85.2	1.91	1060	2.41	1.10	28.1	24.5	2810
CC13564		4.80	18.95	0.19	2.3	0.096	2.33	74.4	69.8	1.90	1060	2.00	1.41	28.8	24.6	2720
CC13565		5.73	23.20	0.19	1.5	0.106	2.20	78.1	103.0	2.52	1225	1.84	0.98	27.6	18.3	2550
CC13566		4.54	19.60	0.16	1.7	0.074	1.99	73.6	78.1	1.66	1030	2.18	1.11	26.2	19.9	1900
CC13567		4.41	18.35	0.16	1.8	0.056	2.04	64.9	56.1	1.74	903	1.67	1.10	20.8	21.2	1870
CC13568		4.80	18.40	0.14	2.2	0.067	1.75	52.1	56.5	1.45	880	3.08	1.11	19.4	30.4	1860
CC13569		5.20	19.60	0.17	2.4	0.094	2.21	82.9	72.4	1.91	932	2.80	1.13	26.1	23.7	2150
CC13570		4.61	17.25	0.16	2.2	0.064	2.10	68.8	49.4	1.80	873	3.05	1.31	25.9	24.2	2830
CC13571		4.58	15.95	0.13	1.6	0.058	1.72	56.0	51.2	1.56	841	3.46	1.12	19.2	24.2	1640
CC13572		3.55	14.90	0.13	2.0	0.053	1.58	42.2	31.4	1.01	660	3.61	1.06	18.0	16.8	1630
CC13573		3.87	15.10	0.14	2.0	0.059	1.41	62.1	44.1	1.12	815	3.90	1.00	17.8	20.3	1520
CC13574		3.44	13.90	0.11	2.4	0.045	1.18	36.3	29.2	0.76	599	1.72	0.96	11.3	37.4	1070
CC13575		1.51	14.65	0.08	2.3	0.032	1.13	28.7	15.5	0.37	178	1.44	0.70	11.3	9.7	370
CC13576		3.64	15.60	0.11	2.3	0.044	1.40	33.3	25.2	0.71	358	2.09	0.87	12.2	21.2	600
CC13577		3.32	13.75	0.11	2.4	0.044	1.23	35.2	28.9	0.69	452	1.71	0.83	11.4	26.9	640
CC13578		3.19	15.55	0.10	2.3	0.041	1.21	28.8	23.6	0.46	495	2.29	0.82	11.3	22.8	450
CC13579		3.39	15.55	0.13	2.8	0.041	1.23	38.8	20.1	0.48	338	2.27	0.69	12.9	20.8	660
CC13580		3.78	15.55	0.14	2.4	0.047	1.26	31.9	26.9	0.70	460	2.28	0.77	11.7	24.5	1380
CC13581		3.53	13.55	0.11	1.9	0.048	1.11	28.1	35.4	0.61	520	1.52	0.89	10.0	28.0	560
CC13582		3.80	15.55	0.12	2.2	0.052	1.29	31.2	33.8	0.64	467	2.14	0.91	11.3	31.5	660
CC13583		3.09	14.35	0.12	2.1	0.041	1.19	28.5	26.2	0.56	342	2.02	0.90	10.9	19.8	580

Comments: NSS is non-sufficient sample.

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Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
CC13544		16.4	61.6	<0.002	0.03	1.76	2	1.7	158.0	0.74	0.06	9.6	0.395	0.46	2.7	114
CC13545		14.0	53.5	<0.002	0.02	1.48	2	1.5	161.5	1.28	0.05	11.3	0.430	0.37	2.6	111
CC13546		18.1	72.5	<0.002	0.04	2.84	2	2.0	145.5	0.89	0.05	15.8	0.378	0.52	4.2	99
CC13547		17.6	60.0	<0.002	0.02	1.59	2	2.2	138.5	0.95	0.06	9.7	0.452	0.56	2.9	117
CC13548		33.2	100.5	<0.002	0.05	4.28	1	3.4	215.0	1.49	0.05	38.4	0.429	0.72	12.2	109
CC13549		32.0	89.8	<0.002	0.05	2.64	<1	3.3	226.0	1.26	0.06	51.5	0.401	0.70	18.7	106
CC13550		31.3	97.6	<0.002	0.03	2.66	2	2.8	226.0	1.32	0.06	40.6	0.451	0.64	10.9	116
CC13551		26.5	114.5	<0.002	0.05	4.98	1	3.8	273.0	1.24	0.05	39.4	0.404	0.80	10.2	103
CC13552		24.0	125.5	<0.002	0.01	3.68	2	2.9	308.0	1.32	<0.05	28.5	0.438	0.77	10.2	119
CC13553		23.2	134.0	<0.002	0.03	5.00	1	3.3	312.0	1.33	0.05	32.4	0.447	0.82	12.1	123
CC13554		20.8	109.0	<0.002	0.06	5.83	1	2.7	284.0	1.08	<0.05	28.8	0.412	0.76	12.1	110
CC13555		109.0	148.5	<0.002	0.04	44.30	<1	15.7	385.0	1.57	<0.05	32.0	0.555	1.06	10.9	147
CC13556		134.0	213.0	<0.002	0.05	84.50	<1	20.2	497.0	1.82	<0.05	54.7	0.625	1.63	9.4	174
CC13557		49.3	195.0	<0.002	0.04	16.55	1	9.8	398.0	1.67	<0.05	44.1	0.472	1.32	23.8	124
CC13558		34.1	154.0	<0.002	0.04	17.35	<1	5.0	471.0	1.30	0.05	29.4	0.549	0.96	11.6	144
CC13559		35.4	157.0	<0.002	0.06	23.90	<1	6.3	334.0	1.41	<0.05	40.0	0.479	1.17	13.6	135
CC13560		67.3	186.0	<0.002	0.06	41.40	1	10.1	369.0	1.61	<0.05	45.8	0.496	1.30	24.6	142
CC13561		78.5	196.5	<0.002	0.01	27.60	<1	11.9	470.0	2.06	<0.05	36.1	0.681	1.29	12.3	185
CC13562		40.8	195.5	<0.002	0.02	13.90	<1	8.7	432.0	1.93	0.05	49.7	0.687	1.34	9.0	185
CC13563		78.1	174.0	<0.002	0.03	22.80	1	11.6	362.0	1.72	<0.05	37.4	0.572	1.23	14.5	153
CC13564		44.6	166.5	<0.002	0.02	17.70	<1	11.6	436.0	1.94	0.05	37.5	0.597	1.13	14.4	152
CC13565		30.6	217.0	<0.002	0.03	19.80	<1	10.3	413.0	1.71	<0.05	52.6	0.527	1.39	28.9	158
CC13566		36.3	175.0	<0.002	0.03	14.20	<1	8.9	380.0	1.60	<0.05	41.6	0.484	1.22	21.6	130
CC13567		21.8	156.5	<0.002	0.03	3.70	2	5.8	458.0	1.30	<0.05	35.1	0.492	1.02	9.7	133
CC13568		24.3	128.0	<0.002	0.06	2.79	1	3.9	280.0	1.16	0.05	29.1	0.528	1.01	9.7	148
CC13569		40.0	174.5	<0.002	0.05	8.97	1	11.8	379.0	1.54	0.05	41.5	0.600	1.38	15.6	156
CC13570		19.3	140.0	<0.002	0.03	3.16	<1	6.1	391.0	1.58	<0.05	27.0	0.586	0.92	9.3	157
CC13571		19.5	117.0	<0.002	0.04	3.54	1	5.0	324.0	1.11	<0.05	31.0	0.519	0.89	10.7	141
CC13572		27.1	104.0	<0.002	0.06	5.59	<1	5.7	254.0	1.21	0.05	20.5	0.430	0.78	6.1	118
CC13573		18.5	95.2	<0.002	0.06	5.47	1	6.9	254.0	1.19	<0.05	26.1	0.431	0.75	11.4	121
CC13574		19.7	62.9	<0.002	0.03	2.08	1	1.5	165.5	0.80	0.06	10.3	0.397	0.42	2.6	101
CC13575		10.4	66.7	<0.002	0.03	1.08	1	1.9	112.0	0.83	0.06	7.0	0.411	0.61	2.1	98
CC13576		13.6	82.6	<0.002	0.03	2.54	1	1.7	135.0	0.87	0.07	9.3	0.445	0.56	2.4	125
CC13577		14.4	70.6	<0.002	0.03	3.15	1	1.6	135.5	0.79	0.06	10.1	0.391	0.46	2.6	111
CC13578		29.4	73.5	<0.002	0.02	5.62	1	1.8	131.0	0.81	0.06	7.7	0.407	0.55	2.2	121
CC13579		15.4	67.6	<0.002	0.04	3.47	1	1.8	123.5	0.92	0.08	10.0	0.461	0.58	2.7	134
CC13580		14.6	72.1	<0.002	0.06	3.95	1	1.9	126.0	0.81	0.07	9.1	0.415	0.52	2.5	120
CC13581		14.6	62.8	<0.002	0.03	2.76	1	1.5	142.5	0.71	0.06	8.0	0.338	0.54	2.0	101
CC13582		16.1	74.7	<0.002	0.02	2.45	1	1.8	141.0	0.81	0.07	8.8	0.410	0.72	2.5	128
CC13583		13.4	75.3	<0.002	0.03	1.28	1	1.6	137.0	0.79	0.07	7.4	0.392	0.55	2.1	110

Comments: NSS is non-sufficient sample.

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Sample Description	Method / Analyte / Units / LOR	ME-MS61U W ppm 0.1	ME-MS61U Y ppm 0.1	ME-MS61U Zn ppm 2	ME-MS61U Zr ppm 0.5
CC13544		1.4	14.1	80	76.0
CC13545		1.8	15.3	65	75.8
CC13546		2.5	13.8	64	80.4
CC13547		1.9	11.9	40	84.9
CC13548		4.4	20.8	102	91.9
CC13549		2.3	24.0	97	84.5
CC13550		2.6	20.5	110	83.0
CC13551		3.6	22.5	91	70.0
CC13552		2.5	28.4	105	84.2
CC13553		2.9	26.3	108	74.7
CC13554		2.2	19.2	105	58.2
CC13555		2.9	28.6	279	48.0
CC13556		8.0	35.2	355	67.0
CC13557		4.5	29.1	172	54.7
CC13558		2.7	31.1	167	74.4
CC13559		8.8	25.6	155	53.5
CC13560		8.9	34.8	286	54.1
CC13561		4.8	40.4	314	70.2
CC13562		3.7	38.5	190	68.7
CC13563		8.0	34.1	247	59.1
CC13564		6.4	34.1	185	64.8
CC13565		5.9	34.3	218	34.7
CC13566		4.3	28.7	145	46.6
CC13567		2.7	24.3	113	50.8
CC13568		2.4	20.9	120	70.0
CC13569		2.9	28.5	133	66.3
CC13570		2.6	29.1	103	62.0
CC13571		2.3	18.6	103	50.1
CC13572		2.3	16.4	89	61.3
CC13573		2.7	23.2	82	60.2
CC13574		2.1	15.6	102	82.2
CC13575		1.4	11.2	31	78.3
CC13576		1.6	13.5	73	81.5
CC13577		1.4	15.1	78	83.5
CC13578		1.5	12.3	66	80.3
CC13579		1.7	14.3	63	95.1
CC13580		1.7	13.5	84	85.6
CC13581		1.3	12.6	89	65.2
CC13582		1.4	14.3	103	74.8
CC13583		1.3	11.9	59	71.1

Comments: NSS is non-sufficient sample.

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CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC13584		0.20	0.006	0.22	4.79	9.0	820	1.46	0.21	0.50	0.20	66.80	8.2	52	9.21	22.5
M24125		0.28	0.007	0.14	5.80	40.3	860	3.54	0.29	1.34	0.21	89.70	10.7	71	12.90	16.7
M24126		0.30	0.005	0.13	6.04	22.4	900	2.79	0.16	1.17	0.17	70.60	9.6	63	7.08	17.4
M24127		0.40	0.006	0.11	5.76	39.7	820	2.76	0.18	1.26	0.19	70.60	10.2	68	7.33	14.5
M24128		0.30	0.004	0.09	5.36	40.2	750	3.07	0.20	1.17	0.24	87.80	12.9	73	11.90	15.3
M24129		0.26	0.005	0.13	5.94	39.4	830	2.88	0.23	1.12	0.18	79.00	10.9	71	12.05	17.3
M24130		0.22	0.007	0.22	6.15	53.8	950	3.91	0.26	1.83	0.35	109.50	14.2	78	20.10	21.2
M24131		0.28	NSS	0.24	6.70	255.0	1000	5.12	0.93	1.88	0.29	122.00	13.7	88	19.45	20.8

Comments: NSS is non-sufficient sample.

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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: HOPEFULL

Finalized Date: 13-SEP-2007
Account: RCM

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC13584		2.27	13.55	0.13	2.2	0.035	1.09	35.1	18.9	0.44	252	1.66	0.75	10.8	19.3	750
M24125		3.48	15.95	0.15	2.0	0.052	1.53	47.7	34.0	1.01	601	1.20	1.00	17.2	17.0	1410
M24126		3.14	14.20	0.14	1.8	0.044	1.44	38.0	30.8	0.89	440	1.15	1.20	12.2	21.9	1030
M24127		3.22	14.20	0.13	2.0	0.046	1.33	37.9	31.0	0.89	536	1.37	1.11	13.4	20.0	1110
M24128		3.68	14.40	0.13	2.1	0.051	1.27	43.7	34.0	0.88	1160	3.00	0.96	15.3	19.9	1460
M24129		3.32	15.00	0.13	1.9	0.052	1.33	43.8	36.6	0.86	526	1.41	1.11	13.3	20.5	990
M24130		3.80	15.70	0.18	2.0	0.064	1.64	56.9	39.7	1.22	787	2.45	1.18	19.5	21.8	1540
M24131		4.09	16.35	0.20	2.1	0.064	2.00	60.1	47.5	1.27	887	2.31	1.29	26.2	22.5	1740

Comments: NSS is non-sufficient sample.

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CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	Pb	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
CC13584		32.8	62.3	<0.002	0.04	1.94	1	1.7	120.5	0.79	0.06	8.4	0.375	0.55	2.5	94
M24125		20.7	102.5	<0.002	0.02	5.00	<1	3.2	242.0	1.09	<0.05	15.5	0.414	0.70	4.4	112
M24126		14.4	81.3	<0.002	0.02	2.51	1	2.0	225.0	0.81	<0.05	15.0	0.371	0.53	4.3	108
M24127		15.5	78.8	<0.002	0.02	3.27	1	2.3	212.0	0.92	<0.05	14.7	0.399	0.53	4.1	109
M24128		16.0	77.9	<0.002	0.05	6.22	1	2.6	190.5	1.03	0.05	19.9	0.424	0.49	5.8	117
M24129		18.0	80.5	<0.002	0.02	3.68	1	2.8	204.0	0.93	<0.05	16.5	0.397	0.59	5.0	114
M24130		22.0	110.5	<0.002	0.03	5.89	1	4.5	293.0	1.38	<0.05	25.0	0.437	0.85	9.3	120
M24131		23.3	128.5	<0.002	0.02	11.40	1	7.5	325.0	1.88	<0.05	29.2	0.502	1.08	9.2	125

Comments: NSS is non-sufficient sample.

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Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084064

Sample Description	Method	ME-MS61U	ME-MS61U	ME-MS61U	ME-MS61U
	Analyte	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5
CC13584		1.3	14.9	53	78.2
M24125		2.7	18.8	79	63.0
M24126		1.7	16.6	76	57.3
M24127		1.7	16.0	72	63.3
M24128		2.4	18.0	85	66.7
M24129		1.8	17.6	71	64.2
M24130		3.7	21.6	96	63.5
M24131		4.2	22.6	102	61.6

Comments: NSS is non-sufficient sample.

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To: **ATAC RESOURCES LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 4-SEP-2007
Account: RCM

CERTIFICATE VA07084061

Project: HOPEFULL

P.O. No.:

This report is for 28 Rock samples submitted to our lab in Vancouver, BC, Canada on 3-AUG-2007.

The following have access to data associated with this certificate:

AL ARCHER BILL WENGZYNOWSKI	DOUG EATON	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: **ATAC RESOURCES LTD.**
ATTN: AL ARCHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: Lawrence Ng

Lawrence Ng, Laboratory Manager - Vancouver

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Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084061

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C107370		0.41	0.001	0.07	7.80	26.9	1400	6.39	0.13	0.11	1.09	20.70	1.5	1	13.65	0.9
C107371		0.61	0.001	0.05	2.19	5.8	480	1.14	0.10	0.06	0.52	21.80	31.3	26	1.09	21.5
C107372		0.36	<0.001	0.22	2.15	3.4	960	0.45	0.09	0.24	1.19	28.10	4.3	33	0.85	21.7
C107373		0.69	0.044	>100	5.39	>10000	740	2.72	112.00	0.13	433.00	29.20	3.8	26	2.44	316.0
C107374		0.57	0.005	24.50	9.37	3540.0	2660	8.71	3.44	0.04	45.30	87.90	1.6	23	19.45	269.0
C107375		0.32	0.002	1.31	8.14	168.5	2160	2.82	2.98	0.53	2.36	119.00	7.4	74	15.90	16.3
C107376		0.30	0.175	40.40	6.07	>10000	530	7.08	2.43	0.23	90.80	191.50	8.1	255	47.50	168.5
C107377		0.31	0.001	0.43	1.47	135.5	10	0.27	0.11	0.25	0.85	10.80	1.0	37	1.04	3.2
C107378		0.58	0.304	17.90	6.59	>10000	30	4.03	53.50	0.30	5.20	18.35	9.5	59	1.28	49.5
C107379		0.57	0.208	>100	0.81	>10000	10	1.74	45.30	0.06	4.44	212.00	0.8	125	2.27	230.0
C107380		0.79	0.076	95.20	8.36	>10000	130	16.55	61.70	0.36	21.80	78.30	1.3	119	0.84	94.9
C107381		0.35	0.004	5.36	6.70	2680.0	280	9.73	2.30	0.63	0.18	119.00	7.2	114	1.07	88.3
C107382		0.48	0.002	0.71	1.62	68.5	210	1.31	0.41	0.07	0.42	11.80	18.9	23	1.24	43.9
C107383		0.44	<0.001	0.35	1.95	38.9	200	1.04	0.10	0.01	0.28	22.50	2.0	28	2.63	36.4
C107384		0.43	0.001	0.38	1.40	24.1	250	0.87	0.24	0.05	0.25	18.15	12.4	26	1.96	28.3
C107385		0.45	0.001	0.19	0.32	19.6	30	0.11	0.03	0.01	0.03	2.28	0.5	20	0.44	6.2
C107386		0.36	0.020	3.73	5.67	205.0	390	4.35	0.19	0.02	1.67	59.50	8.2	66	12.65	153.0
C107387		0.54	0.004	1.48	2.30	29.6	230	1.38	0.22	0.01	0.24	21.70	3.8	28	5.24	92.0
C107388		0.44	0.017	0.55	0.83	27.8	70	1.38	4.46	0.01	0.11	11.25	2.5	27	3.17	100.5
C107389		0.42	0.019	0.83	6.55	61.9	660	6.31	0.14	0.05	0.22	80.70	1.8	7	20.90	10.6
C107390		0.57	0.003	8.81	4.77	558.0	210	3.71	0.63	0.05	3.23	149.00	1.3	16	4.23	22.4
C107391		0.64	0.009	0.47	1.67	241.0	110	1.09	0.92	0.03	0.88	14.10	0.9	30	0.58	138.5
C107392		0.44	0.006	0.23	0.84	16.6	80	0.61	0.19	0.02	0.31	4.17	1.4	18	0.82	38.1
C107393		0.44	0.001	0.08	0.79	5.9	290	0.21	0.01	<0.01	0.07	2.23	3.0	18	0.45	11.0
C107394		0.32	0.001	0.25	1.56	3250.0	580	0.75	0.06	0.01	3.64	23.90	3.7	37	3.49	83.8
C107395		0.34	<0.001	0.08	0.59	13.1	90	0.06	0.02	0.01	0.11	3.02	1.3	15	0.34	10.7
C107396		0.98	0.012	>100	6.67	>10000	260	4.72	138.00	0.12	15.50	91.80	1.7	10	2.43	251.0
C107397		0.86	0.024	31.90	2.53	6860.0	780	2.65	1.11	0.05	5.79	52.70	0.7	23	7.38	162.0

Comments: REE's may not be totally soluble in MS61 method.

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Finalized Date: 4-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084061

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C107370		0.88	25.10	0.07	4.2	<0.005	1.86	9.2	53.5	0.14	400	0.36	0.03	19.6	8.0	70
C107371		2.37	4.54	0.08	1.2	0.020	0.39	10.3	18.4	0.17	288	1.58	0.01	5.1	104.0	650
C107372		2.64	6.06	0.12	1.3	0.029	0.52	14.4	73.9	0.94	512	2.01	0.18	5.8	16.1	430
C107373		9.64	26.00	0.58	1.2	2.800	0.13	17.7	11.0	0.81	189	9.75	0.37	2.3	9.1	1870
C107374		7.37	22.90	0.23	1.3	0.822	3.84	59.6	15.6	0.45	207	3.33	0.10	7.6	3.3	950
C107375		2.03	17.45	0.17	1.3	0.122	5.10	54.9	22.1	0.57	631	0.88	0.38	27.9	9.7	1900
C107376		10.80	17.95	0.35	1.6	2.770	2.80	100.0	56.9	0.65	575	5.28	0.05	13.0	7.7	1580
C107377		1.64	6.03	0.07	0.2	0.060	0.03	5.7	12.7	0.48	83	0.33	0.12	1.9	3.1	370
C107378		6.01	22.60	0.24	0.6	1.030	0.05	10.5	21.7	1.82	139	3.30	0.64	5.9	3.2	510
C107379		5.76	4.53	0.50	1.8	17.700	0.05	115.0	9.5	0.20	57	8.76	0.06	27.9	1.8	2730
C107380		6.95	29.70	0.27	1.3	17.950	0.02	38.0	18.3	2.35	288	17.30	0.83	13.6	3.2	1440
C107381		4.09	25.40	0.21	1.9	0.989	0.02	60.9	24.6	1.91	198	1.97	0.65	17.3	9.4	1760
C107382		2.97	5.26	0.09	0.5	0.093	0.24	5.2	29.9	0.85	466	0.99	0.01	2.4	34.1	520
C107383		3.43	4.43	0.10	1.0	0.025	0.25	11.5	17.0	0.04	52	1.46	<0.01	3.5	11.4	720
C107384		3.10	4.75	0.09	0.7	0.049	0.28	9.9	23.8	0.53	405	0.96	0.01	3.2	26.7	440
C107385		0.85	1.02	<0.05	0.1	0.012	0.06	1.1	5.7	0.05	66	0.47	<0.01	0.6	3.2	80
C107386		24.20	16.70	0.44	2.7	0.476	1.27	31.9	15.7	0.24	600	11.05	0.07	6.8	38.5	3270
C107387		9.08	6.92	0.17	1.1	0.070	0.65	11.1	13.3	0.07	233	2.34	<0.01	3.0	12.7	760
C107388		3.16	2.16	0.09	0.3	0.076	0.16	5.9	8.0	0.03	54	1.04	<0.01	2.0	14.3	570
C107389		12.65	20.80	0.23	1.8	0.027	2.54	48.6	16.4	0.19	168	3.99	0.01	11.6	2.3	550
C107390		3.71	12.35	0.22	3.6	0.478	0.78	85.8	11.5	0.39	174	11.45	0.27	30.8	2.8	310
C107391		7.24	5.09	0.18	1.1	1.280	0.05	7.0	6.0	0.28	72	3.59	0.12	3.5	7.6	810
C107392		2.22	3.42	0.12	0.3	0.055	0.04	2.4	9.6	0.15	71	2.04	<0.01	1.1	4.2	370
C107393		1.78	2.44	0.05	0.3	<0.005	0.14	1.0	12.8	0.02	194	0.62	<0.01	0.9	13.2	120
C107394		9.49	4.25	0.20	1.1	0.014	0.39	11.9	8.3	0.07	72	4.06	<0.01	2.8	18.2	1440
C107395		1.89	2.07	0.10	0.1	<0.005	0.05	1.4	14.3	0.31	295	0.71	<0.01	0.5	13.4	90
C107396		7.50	28.50	0.43	1.9	1.570	0.11	51.8	23.3	0.54	329	5.33	0.50	10.2	1.4	290
C107397		7.95	12.20	0.24	0.4	1.645	0.36	29.1	11.0	0.33	99	2.67	0.11	1.1	2.1	640

Comments: REE's may not be totally soluble in MS61 method.

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Project: HOPEFULL

Finalized Date: 4-SEP-2007
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CERTIFICATE OF ANALYSIS VA07084061

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
C107370		41.5	202.0	<0.002	0.07	3.32	0.5	2	2.6	22.7	1.19	<0.05	19.4	0.037	2.06	4.7
C107371		9.5	20.7	<0.002	0.01	1.43	3.1	2	0.6	19.2	0.36	<0.05	5.3	0.126	0.08	2.6
C107372		53.0	26.9	<0.002	0.06	1.31	3.9	3	1.6	83.1	0.40	<0.05	5.2	0.125	0.20	1.8
C107373		>10000	13.0	0.006	0.77	>10000	8.2	55	500.0	132.0	0.18	0.97	7.9	0.102	2.57	20.9
C107374		2400.0	450.0	<0.002	0.06	744.00	8.0	4	>500	39.6	0.61	<0.05	40.5	0.087	10.90	24.2
C107375		207.0	289.0	<0.002	<0.01	208.00	9.9	2	65.5	442.0	1.25	0.05	27.8	0.257	3.09	6.6
C107376		491.0	490.0	<0.002	0.41	361.00	17.9	2	325.0	414.0	0.71	<0.05	23.4	0.346	11.80	50.9
C107377		31.7	4.5	<0.002	<0.01	37.40	5.3	2	27.9	149.5	0.31	<0.05	2.2	0.122	0.10	0.8
C107378		1485.0	1.5	<0.002	0.64	454.00	9.3	29	404.0	345.0	0.51	0.23	15.2	0.145	0.11	4.9
C107379		>10000	11.5	<0.002	0.36	1210.00	7.8	32	439.0	57.1	1.55	<0.05	30.0	0.491	0.33	19.2
C107380		7860.0	0.5	<0.002	0.08	362.00	26.5	13	>500	503.0	0.89	<0.05	19.5	0.303	0.18	12.6
C107381		113.0	0.7	<0.002	0.11	54.00	14.7	2	>500	536.0	1.13	<0.05	31.6	0.357	0.05	11.4
C107382		48.0	23.2	<0.002	0.05	11.85	2.5	3	4.7	44.6	0.16	<0.05	2.1	0.055	0.18	0.8
C107383		39.2	15.1	<0.002	<0.01	14.45	3.2	2	1.9	31.9	0.25	<0.05	4.0	0.081	0.14	1.4
C107384		24.6	24.1	<0.002	0.04	6.99	2.7	2	2.2	32.7	0.22	<0.05	2.9	0.072	0.19	0.8
C107385		9.0	4.8	<0.002	<0.01	2.73	0.5	2	0.9	3.0	<0.05	<0.05	0.4	0.009	0.03	0.2
C107386		165.5	175.0	<0.002	0.15	55.80	7.6	6	76.8	111.0	0.46	<0.05	14.6	0.160	3.55	3.8
C107387		47.3	72.2	<0.002	0.05	40.90	3.5	2	12.7	30.3	0.21	<0.05	4.6	0.079	1.38	1.4
C107388		10.9	17.9	<0.002	0.01	45.60	2.1	4	1.0	10.7	0.11	0.19	1.6	0.043	0.29	0.7
C107389		25.2	274.0	<0.002	0.06	59.70	2.1	1	6.4	28.9	0.72	<0.05	18.0	0.075	6.99	6.4
C107390		749.0	101.0	<0.002	0.04	107.00	4.0	<1	275.0	86.8	1.73	<0.05	38.5	0.256	1.85	8.9
C107391		1260.0	3.7	<0.002	0.02	54.00	3.7	11	8.9	67.1	0.17	0.10	4.1	0.090	0.05	1.6
C107392		24.0	3.1	<0.002	0.02	9.38	1.8	2	3.0	6.2	0.07	0.06	1.6	0.023	0.08	0.5
C107393		5.4	6.6	<0.002	0.01	1.17	0.7	1	0.5	5.4	0.06	<0.05	0.8	0.019	0.06	0.3
C107394		11.7	22.0	0.002	0.02	492.00	3.7	8	0.7	24.2	0.19	0.05	4.1	0.081	0.47	1.7
C107395		4.0	2.4	<0.002	<0.01	2.97	0.5	<1	0.4	5.5	<0.05	<0.05	0.4	0.010	0.03	0.2
C107396		>10000	11.3	<0.002	0.45	>10000	3.7	20	385.0	173.5	0.67	0.15	13.9	0.111	0.78	9.8
C107397		7520.0	39.2	<0.002	0.15	512.00	4.6	40	271.0	84.5	0.07	0.15	11.1	0.044	0.93	4.5

Comments: REE's may not be totally soluble in MS61 method.

ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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To: ATAC RESOURCES LTD.
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 4-SEP-2007
Account: RCM

Project: HOPEFULL

CERTIFICATE OF ANALYSIS VA07084061

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Pb-OG62 Pb % 0.01
C107370		2	3.4	9.7	112	87.2		
C107371		45	0.9	13.7	722	41.4		
C107372		49	0.9	9.4	161	40.4		
C107373		59	2.3	6.4	364	17.9	280	6.65
C107374		100	17.0	8.9	873	41.1		
C107375		68	8.9	19.6	74	29.4		
C107376		227	16.6	26.3	1465	32.0		
C107377		47	1.1	2.3	30	4.6		
C107378		74	2.4	3.3	130	15.5		
C107379		54	7.6	12.5	108	45.4	501	1.87
C107380		184	18.5	10.9	340	26.9		
C107381		110	7.2	19.0	96	44.2		
C107382		24	0.6	8.3	97	14.3		
C107383		37	1.4	6.5	77	33.1		
C107384		25	0.7	5.3	92	21.9		
C107385		6	<0.1	1.8	6	3.1		
C107386		180	11.3	15.5	597	89.1		
C107387		71	4.6	9.5	269	33.9		
C107388		16	1.3	6.1	33	9.8		
C107389		20	9.1	8.7	55	54.3		
C107390		26	33.3	10.0	97	107.5		
C107391		67	2.0	5.6	314	35.2		
C107392		11	0.4	1.5	51	9.4		
C107393		16	0.1	1.7	32	8.4		
C107394		37	0.5	12.2	125	37.0		
C107395		13	0.1	1.4	28	4.0		
C107396		21	1.7	9.2	105	46.7	667	2.73
C107397		49	2.3	7.8	178	14.0		

Comments: REE's may not be totally soluble in MS61 method.

APPENDIX III

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Project: Hopeful Property: Hopeful

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107370	UTM: 388376	E	UTM: 7098267	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: beige weathering, quartz-feldspar porphyry with small cubes of pyrite. In zone 3x3m, approx 20 pieces.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107371	UTM: 388422	E	UTM: 7098618	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: orange to brown weathering breccia with minor limonitic matrix

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107372	UTM: 388438	E	UTM: 7098709	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: rusty-brown weathering, greasy grey to white quartz vein

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107373	UTM: 388035	E	UTM: 7098248	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: yellow to orange limonitic weathering breccia. Green-yellow weathering likely from arsenopyrite, but no sulphides remain.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107374	UTM: 387982	E	UTM: 7098252	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: brown weathering, strongly limonitic quartz vein (limonite was pyrite)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107375	UTM: 387446	E	UTM: 7097552	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: tourmaline-bearing syenite

Rock Sample Descriptions Project: Hopeful Property: Hopeful

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107376	UTM: 387384	E	UTM: 7097526	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: brown weathering, spinel and wolframite-bearing, fine-grained quartz breccia with limonite matrix, with limonite replacing pyrite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107377	UTM: 387384	E	UTM: 7097526	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: white quartz with black tourmaline + unknown mineral in a zone approx 4cm across.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107378	UTM: 387287	E	UTM: 7097488	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: grey weathering, locally yellow-stained, tourmaline >> quartz vein with blebby arsenopyrite. Approx 5cm wide.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107379	UTM: 387258	E	UTM: 7097495	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: grey weathering, disseminated pyrite and arsenopyrite in (recrystallized?) quartz

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107380	UTM: 387130	E	UTM: 7097472	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: rusty weathering, limonite rich, locally yellow stained, tourmaline >> quartz vein

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107381	UTM: 386906	E	UTM: 7097638	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: tourmaline + quartz with minor orange limonite

Rock Sample Descriptions Project: Hopeful Property: Hopeful

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107382	UTM: 391117	E	UTM: 7096838	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: quartz-shale contact, with spinel in quartz. Partially oxidized.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107383	UTM: 391139	E	UTM: 7097096	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: limonite-rich syenite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107384	UTM: 391165	E	UTM: 7097312	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: brown-weathering, quartz with fragments of black to dark green (chloritized?) metasediments with orange limonite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107385	UTM: 390869	E	UTM: 7097296	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: rusty weathering, minorly limonitized, quartz vein with metasediments, trace Py

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107386	UTM: 390748	E	UTM: 7097264	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: highly weathered, light brown weathering, limonite-rich porphyry? Tourmaline replaced by limonite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107387	UTM: 390748	E	UTM: 7097264	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Clay-altered, limonitic quartz porphyry (?)

Rock Sample Descriptions Project: Hopeful Property: Hopeful

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107388	UTM: 390355	E	UTM: 7096892	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: rusty weathering quartz + metasediments with orange limonite and trace cubic pyrite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107389	UTM: 390223	E	UTM: 7096833	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: highly weathered, limonitized syenite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107390	UTM: 389961	E	UTM: 7097165	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: grey-green weathering, tourmaline-quartz vein

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107391	UTM: 389877	E	UTM: 7097741	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: rusty weathering, limonitized quartz breccia

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107392	UTM: 389921	E	UTM: 7097801	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: rusty-brown weathering, orange-white-grey quartz vein, vugs filled with clay and limonite

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
C107393	UTM: 390214	E	UTM: 7098149	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: quartz vein with limonite staining

Rock Sample Descriptions

Project: Hopeful Property: Hopeful

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C107394	UTM:	390324	E	UTM:	7098163	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: quartz vein with limonite staining

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C107395	UTM:	390084	E	UTM:	7098098	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: quartz vein with bladed wolframite and limonite replacing pyrite

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C107396	UTM:	387971	E	UTM:	7097968	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: arsenopyrite-scorodite-clay vein from trench

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
C107397	UTM:	388005	E	UTM:	7097982	N	Sample Width:	Abundance:
	Elevation:		m					

Comments: weakly mineralized quartz breccia

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
	UTM:		E	UTM:		N	Sample Width:	Abundance:
	Elevation:		m					

Comments:

Sample Number:	Grid East:		E	Grid North:		N	Type:	Dimension:
	UTM:		E	UTM:		N	Sample Width:	Abundance:
	Elevation:		m					

Comments:

APPENDIX IV

REPORT ON A HELICOPTER-BORNE, VERSATILE TIME DOMAIN ELECTROMAGNETIC (VTEM) GEOPHYSICAL SURVEY, INCLUDING CD WITH DIGITAL DATA

REPORT ON A HELICOPTER-BORNE VERSATILE TIME DOMAIN ELECTROMAGNETIC (VTEM) GEOPHYSICAL SURVEY

Hopeful property

Yukon, Canada

for

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By

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Survey flown in August 2007

Project 7067

October, 2007

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APPENDICES

REPORT ON A HELICOPTER-BORNE
VERSATILE TIME DOMAIN ELECTROMAGNETIC SURVEY

Hopeful property, Yukon, Canada

Executive Summary

This report describes the Helicopter-borne geophysical survey carried out on behalf of ATAC Resources Ltd. by Geotech Ltd. over one block in Yukon, Canada.

Principal geophysical sensors included a versatile time domain electromagnetic (VTEM) system and a cesium magnetometer. Ancillary equipment included a GPS navigation system and a radar altimeter. A total of 211.3 line-km were flown.

In-field data processing involved quality control and compilation of data collected during the acquisition stage, using the in-field processing centre established in Dawson City, Yukon. Preliminary and final data processing, including generation of final digital data products were done at the office of Geotech Ltd. in Aurora, Ontario.

The processed survey results are presented as electromagnetic stacked profiles and total magnetic intensity grid.

Digital data includes all electromagnetic and magnetic products plus positional, altitude and raw data.

1. INTRODUCTION

1.1 General Considerations

These services are the result of the Agreement made between Geotech Ltd. and Archer Cathro & Associates to perform a helicopter-borne geophysical survey over one block located in Yukon, Canada.

211.3 line-km of geophysical data were acquired during the survey.

Bill Wengzynowski acted on behalf of ATAC Resources Ltd. during data acquisition and data processing phases of this project.

The survey block is as shown in Appendix A.

The crew was based in Dawson City, Yukon for the acquisition phase of the survey, as shown in Section 2 of this report.

The helicopter was based at the Dawson City airport for the duration of the survey. Survey flying was completed on August 30th, 2007. Preliminary data processing was carried out daily during the acquisition phase of the project. Final data presentation and data archiving was completed in the Aurora office of Geotech Ltd. in November, 2007.

1.2. Survey and System Specifications

The survey block was flown at nominal traverse line spacing of 100 metres, at N0°E / N180°W direction. Tie lines were flown perpendicular to traverse lines at 1000 metre spacing.

The proposed helicopter terrain clearance of 85 metres was unattainable due to the rugged terrain. Where possible, the helicopter maintained a mean terrain clearance of 120 metres, which translated into an average height of 85 metres above ground for the bird-mounted VTEM system and 105 metres for the magnetic sensor.

The survey was flown using an Astar B3 helicopter, registration C-GTFX. The helicopter was operated by TRK helicopters. Details of the survey specifications may be found in Section 2 of this report.

1.3. Data Processing and Final Products

Data compilation and processing were carried out by the application of Geosoft OASIS Montaj and programs proprietary to Geotech Ltd.

A database, grids and maps of final products were presented to ATAC Resources Ltd.

The survey report describes the procedures for data acquisition, processing, final image presentation and the specifications for the digital data set.

1.4. Topographic Relief and cultural features

The survey block is located in Yukon, approximately 80 kilometers east of the town of Dawson City.

Topographically, the survey area exhibits a challenging mountainous terrain, with elevation range from 980 metres to 1890 metres above sea level.

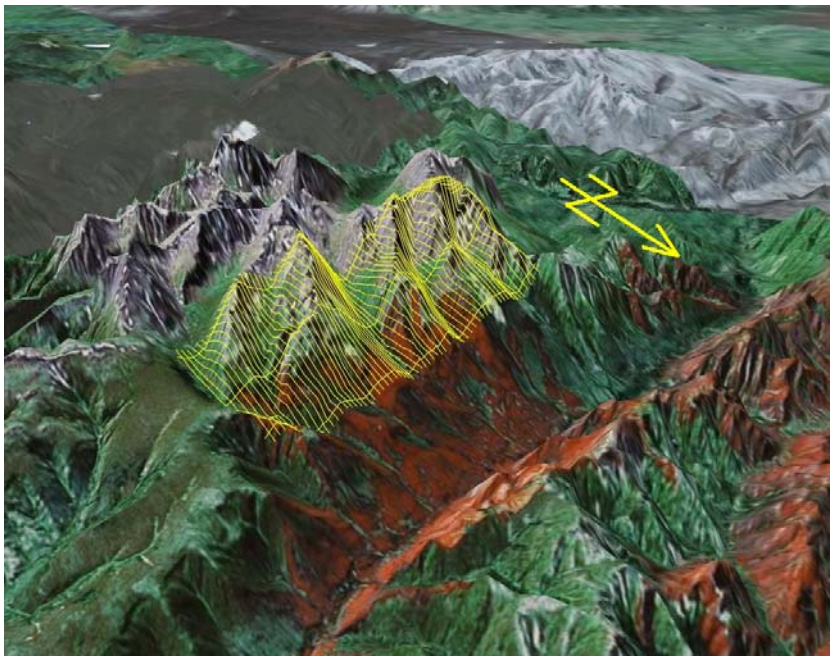

Figure 1 – Projection of flight path on topography.

2. DATA ACQUISITION

2.1. Survey Area

The survey block (see location map, Appendix A) and general flight specifications are as follows:

Survey block	Line spacing (m)	Area (Km2)	Line-km	Flight direction	Line number
HOPEFUL	100	17.42	192.0	N0°E / N180°W	L15010 - L15640
	1000		19.3	N90°E / N270°W	T15910 - T15930

Table 1 - Survey block

Survey block boundaries co-ordinates are provided in Appendix B.

2.2. Survey Operations

Survey operations were based in Dawson City, Yukon for the acquisition phase of the survey.

The following table shows the timing of the flying.

Date	Flight #	Flown KM	Block	Crew Location	Comments
29-Aug-07	71, 72	144.8	HOPEFUL	Triple J Motel, Dawson City, Yukon	Production
30-Aug-07	73	66.5	HOPEFUL	Triple J Motel, Dawson City, Yukon	Block finished

Table 2 - Survey schedule

2.3. Flight Specifications

The nominal EM sensor terrain clearance was 85 m (EM bird height above ground, i.e. helicopter is maintained 120 m above ground) due to rough terrain and helicopter crew safety. Nominal survey speed was 80 km/hour. The data recording rates of the data acquisition was 0.1 second for electromagnetics and magnetometer, 0.2 second for altimeter and GPS. This translates to a geophysical reading about every 2 metres along flight track. Navigation was assisted by a GPS receiver and data acquisition system, which reports GPS co-ordinates as latitude/longitude and directs the pilot over a pre-programmed survey grid.

The operator was responsible for monitoring of the system integrity. He also maintained a detailed flight log during the survey, tracking the times of the flight as well as any unusual geophysical or topographic feature.

On return of the aircrew to the base the survey data was transferred from a compact flash card (PCMCIA) to the data processing computer.

2.4. Aircraft and Equipment

2.4.1. Survey Aircraft

An Astar B3 helicopter, registration C-GTFX - owned and operated by TRK Helicopters Ltd. - was used for the survey. Installation of the geophysical and ancillary equipment was carried out by Geotech Ltd.

2.4.2. Electromagnetic System

The electromagnetic system was a Geotech Time Domain EM (VTEM) system. The configuration is as indicated in Figure 2 below.

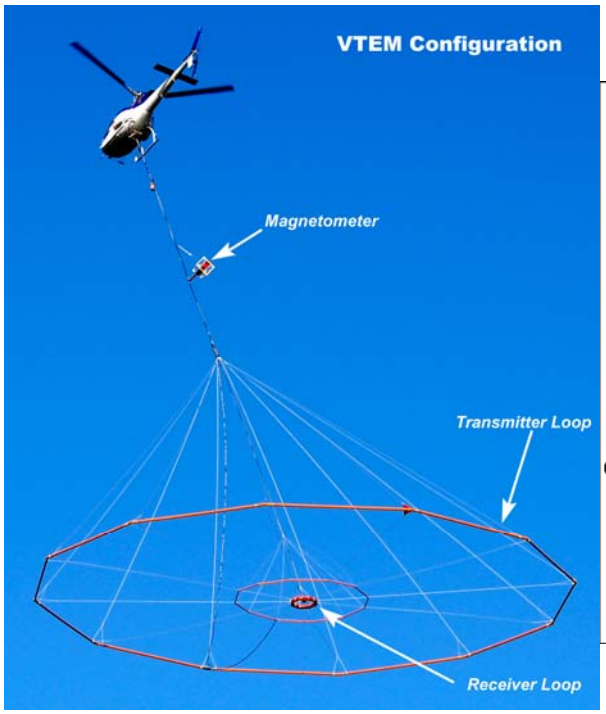

Figure 2 – VTEM configuration

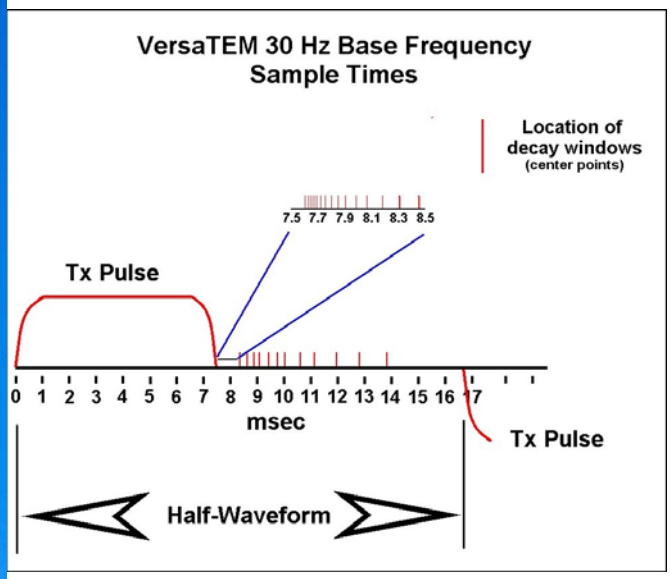

Figure 3 – Sample times

Receiver and transmitter coils are concentric and Z-direction oriented.
The receiver decay recording scheme is shown diagrammatically in Figure 3.

Twenty-four measurement gates were used in the range from 120 μs to 6578 μs, as shown in Table 3.

VTEM Decay Sampling scheme				
Array Index	(Microseconds)			
	Time Gate	Start	End	Width
10	120	110	131	21
11	141	131	154	24
12	167	154	183	29
13	198	183	216	34
14	234	216	258	42
15	281	258	310	53
16	339	310	373	63
17	406	373	445	73
18	484	445	529	84
19	573	529	628	99
20	682	628	750	123
21	818	750	896	146
22	974	896	1063	167
23	1151	1063	1261	198
24	1370	1261	1506	245
25	1641	1506	1797	292
26	1953	1797	2130	333
27	2307	2130	2526	396
28	2745	2526	3016	490
29	3286	3016	3599	583
30	3911	3599	4266	667
31	4620	4266	5058	792
32	5495	5058	6037	979
33	6578	6037	7203	1167

Table 3 - VTEM decay sampling scheme

Transmitter coil diameter was 26 metres, the number of turns was 4.
Transmitter pulse repetition rate was 30 Hz.
Peak current was 192 Amp.
Pulse width was 7.26 ms
Duty cycle was 44%.
Peak dipole moment was 407,600 NIA.

Receiver coil diameter was 1.2 metre, the number of turns was 100.
Receiver effective area was 113.1 m^2
Wave form – trapezoid.
Recording sampling rate was 10 samples per second.

The EM bird was towed 42 m below the helicopter.

2.4.3. Airborne magnetometer

The magnetic sensor utilized for the survey was a Geometrics optically pumped cesium vapour magnetic field sensor, mounted in a separated bird, towed 15 metres below the helicopter, as shown on figure 1. The sensitivity of the magnetic sensor is 0.02 nanoTesla (nT) at a sampling interval of 0.1 seconds. The magnetometer sends the measured magnetic field strength as nanoTeslas to the data acquisition system via the RS-232 port.

2.4.4. Ancillary Systems

2.4.4.1. Radar Altimeter

A Terra TRA 3000/TRI 40 radar altimeter was used to record terrain clearance. The antenna was mounted beneath the bubble of the helicopter cockpit.

2.4.4.2. GPS Navigation System

The navigation system used was a Geotech PC based navigation system utilizing a NovAtel's WAAS enable OEM4-G2-3151W GPS receiver, Geotech navigate software, a full screen display with controls in front of the pilot to direct the flight and an NovAtel GPS antenna mounted on the helicopter tail.
The co-ordinates of the block were set-up prior to the survey and the information was fed into the airborne navigation system.

2.4.4.3. Digital Acquisition System

A Geotech data acquisition system recorded the digital survey data on an internal compact flash card. Data is displayed on an LCD screen as traces to allow the operator to monitor the integrity of the system. The data type and sampling interval as provided in table 4.

DATA TYPE	SAMPLING
TDEM	0.1 sec
Magnetometer	0.1 sec
GPS Position	0.2 sec
RadarAltimeter	0.2 sec

Table 4 - Sampling Rates

2.4.5. Base Station

A combine magnetometer/GPS base station was utilized on this project. A Geometrics Cesium vapour magnetometer was used as a magnetic sensor with a sensitivity of 0.001 nT. The base station was recording the magnetic field together with the GPS time at 1 Hz on a base station computer.

The base station magnetometer sensor was installed 100 metres from the airport in Dawson City, away from electric transmission lines and moving ferrous objects such as motor vehicles.

The magnetometer base station's data was backed-up to the data processing computer at the end of each survey day.

3. PERSONNEL

The following Geotech Ltd. personnel were involved in the project:

Field

Project Manager:	Harish Kumar
Crew chief / QC Geophysicist:	Sean Hayes
Operator:	Keith Lavelly

The survey pilot and the mechanic engineer were employed directly by the helicopter operator – TRK Helicopters Ltd.

Pilot:	Roy Stevenson
Engineer:	Darren Shipman

Office

Data Processing / Reporting:	George Lev
Data Technician:	Maria Jagodkin

Data acquisition and processing phases were carried out under the supervision of Andrei Bagrianski, Surveys Manager. Overall management of the project was undertaken by Edward Morrison, President, Geotech Ltd.

4. DATA PROCESSING AND PRESENTATION

4.1. Flight Path

The flight path, recorded by the acquisition program as WGS 84 latitude/longitude, was converted into the UTM coordinate system in Oasis Montaj.

The flight path was drawn using linear interpolation between x, y positions from the navigation system. Positions are updated every second and expressed as UTM eastings (x) and UTM northings (y).

4.2. Electromagnetic Data

A three stage digital filtering process was used to reject major sferic events and to reduce system noise. Local sferic activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with geological phenomena. To avoid this possibility, a computer algorithm searches out and rejects the major sferic events. The filter used was a 16 point non-linear filter.

The signal to noise ratio was further improved by the application of a low pass linear digital filter. This filter has zero phase shift which prevents any lag or peak displacement from occurring, and it suppresses only variations with a wavelength less than about 1 second or 20 metres. This filter is a symmetrical 1 sec linear filter.

The results are presented as stacked profiles of EM voltages for the time gates, in linear - logarithmic scale for both B-field and dB/dt response.

Generalized modeling results of the VTEM system, written by Geophysicist Roger Barlow, are shown in Appendix C.

Graphical representation of the VTEM output voltage of the receiver coil and the transmitter current is shown in Appendix D.

4.3. Magnetic Data

The processing of the magnetic data involved the correction for diurnal variations by using the digitally recorded ground base station magnetic values. The base station magnetometer data was edited and merged into the Geosoft GDB database on a daily basis. The aeromagnetic data was corrected for diurnal variations by subtracting the observed magnetic base station deviations.

A micro-levelling procedure was applied to remove persistent low-amplitude components of flight-line noise remaining in the data. Where Tie lines were available, Tie line levelling was carried out by adjusting intersection points along the traverse lines.

The corrected magnetic data was interpolated between survey lines using a random point gridding method to yield x-y grid values for a standard grid cell size of approximately 0.1 cm at the mapping scale. The Minimum Curvature algorithm was used to interpolate values onto a rectangular regular spaced grid.

Due to a very rugged topography, the helicopter could not maintain a constant terrain clearance. Thus, significant altitude differences occurred in adjacent lines and resulted in variations of the geophysical data. Efforts were made to level the geophysical signal as much as possible, but in several cases levelling would have been meaningless as it would create an artificial signal not relevant to real situation.

5. DELIVERABLES

5.1. Survey Report

The survey report describes the data acquisition, processing, and final presentation of the survey results.

The survey report is provided in two paper copies and digitally in PDF format.

5.2. Maps

Final maps were produced at a scale of 1:10,000. The coordinate/projection system used was the WGS84, UTM zone 9N. All maps show the flight path trace and topographic data. Latitude and longitude are also noted on maps.

The following maps are presented on paper,

- dB/dt profiles, Time Gates 0.234 – 6.578 ms in linear - logarithmic scale
- B-field profiles, Time Gates 0.234 – 6.578 ms in linear - logarithmic scale
- Total Magnetic intensity contours and colour image

5.3. Digital Data

Two copies of DVDs were prepared.

There are two (2) main directories,

Data contains a database, grids and maps, as described below.

Report contains a copy of the report and appendices in PDF format.

a kmz file containing flightpath of the HOPEFUL property.
A free version of Google Earth software can be downloaded from,
http://earth.google.com/download-earth.html

- Database in Geosoft GDB format, containing the following channels:
  7067Hope_final

X:	X positional data (metres – WGS84, utm zone 9 north)
Y:	Y positional data (metres – WGS84, utm zone 9 north)
Z:	GPS antenna elevation (metres - ASL)
Radar:	Helicopter terrain clearance from radar altimeter (metres - AGL)
DEM:	Digital elevation model (metres)
Gtime1:	GPS time (seconds of the day)
Mag1:	Raw Total Magnetic field data (nT)
Basemag:	Magnetic diurnal variation data (nT)
Mag2:	Total Magnetic field diurnal variation corrected data (nT)
Mag3:	Leveled Total Magnetic field data (nT)
SF[10]:	dB/dt 120 microsecond time channel (pV/A/m^4)
SF[11]:	dB/dt 141 microsecond time channel (pV/A/m^4)
SF[12]:	dB/dt 167 microsecond time channel (pV/A/m^4)
SF[13]:	dB/dt 198 microsecond time channel (pV/A/m^4)
SF[14]:	dB/dt 234 microsecond time channel (pV/A/m^4)
SF[15]:	dB/dt 281 microsecond time channel (pV/A/m^4)
SF[16]:	dB/dt 339 microsecond time channel (pV/A/m^4)
SF[17]:	dB/dt 406 microsecond time channel (pV/A/m^4)
SF[18]:	dB/dt 484 microsecond time channel (pV/A/m^4)
SF[19]:	dB/dt 573 microsecond time channel (pV/A/m^4)
SF[20]:	dB/dt 682 microsecond time channel (pV/A/m^4)
SF[21]:	dB/dt 818 microsecond time channel (pV/A/m^4)
SF[22]:	dB/dt 974 microsecond time channel (pV/A/m^4)
SF[23]:	dB/dt 1151 microsecond time channel (pV/A/m^4)
SF[24]:	dB/dt 1370 microsecond time channel (pV/A/m^4)
SF[25]:	dB/dt 1641 microsecond time channel (pV/A/m^4)
SF[26]:	dB/dt 1953 microsecond time channel (pV/A/m^4)
SF[27]:	dB/dt 2307 microsecond time channel (pV/A/m^4)
SF[28]:	dB/dt 211 5 microsecond time channel (pV/A/m^4)
SF[29]:	dB/dt 3286 microsecond time channel (pV/A/m^4)
SF[30]:	dB/dt 3911 microsecond time channel (pV/A/m^4)
SF[31]:	dB/dt 4620 microsecond time channel (pV/A/m^4)
SF[32]:	dB/dt 5495 microsecond time channel (pV/A/m^4)
SF[33]:	dB/dt 6578 microsecond time channel (pV/A/m^4)
BF[10]:	B-field 120 microsecond time channel (pV*ms)/(A*m^4)
BF[11]:	B-field 141 microsecond time channel (pV*ms)/(A*m^4)
BF[12]:	B-field 167 microsecond time channel (pV*ms)/(A*m^4)
BF[13]:	B-field 198 microsecond time channel (pV*ms)/(A*m^4)
BF[14]:	B-field 234 microsecond time channel (pV*ms)/(A*m^4)
BF[15]:	B-field 281 microsecond time channel (pV*ms)/(A*m^4)

BF[16]:	B-field 339 microsecond time channel (pV*ms)/(A*m^4)
BF[17]:	B-field 406 microsecond time channel (pV*ms)/(A*m^4)
BF[18]:	B-field 484 microsecond time channel (pV*ms)/(A*m^4)
BF[19]:	B-field 573 microsecond time channel (pV*ms)/(A*m^4)
BF[20]:	B-field 682 microsecond time channel (pV*ms)/(A*m^4)
BF[21]:	B-field 818 microsecond time channel (pV*ms)/(A*m^4)
BF[22]:	B-field 974 microsecond time channel (pV*ms)/(A*m^4)
BF[23]:	B-field 1151 microsecond time channel (pV*ms)/(A*m^4)
BF[24]:	B-field 1370 microsecond time channel (pV*ms)/(A*m^4)
BF[25]:	B-field 1641 microsecond time channel (pV*ms)/(A*m^4)
BF[26]:	B-field 1953 microsecond time channel (pV*ms)/(A*m^4)
BF[27]:	B-field 2307 microsecond time channel (pV*ms)/(A*m^4)
BF[28]:	B-field 2745 microsecond time channel (pV*ms)/(A*m^4)
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BF[30]:	B-field 3911 microsecond time channel (pV*ms)/(A*m^4)
BF[31]:	B-field 4620 microsecond time channel (pV*ms)/(A*m^4)
BF[32]:	B-field 5495 microsecond time channel (pV*ms)/(A*m^4)
BF[33]:	B-field 6578 microsecond time channel (pV*ms)/(A*m^4)
PLM:	Power line monitor

Electromagnetic B-field and dB/dt data is found in array channel format between indexes 10 – 33, as described above.

- Database 7067Hopeful_wform.gdb in Geosoft GDB format, containing the following channels:

  Time: Sampling rate interval, 10.416 microseconds
  Volt: output voltage of the receiver coil (volt)

- Grids in Geosoft GRD format, as follow,

  Hopeful_magfin: Total magnetic intensity (nT)

  Hopeful_DEM: Digital elevation model (m)

  A Geosoft .GRD file has a .GI metadata file associated with it, containing grid projection information.
  Grid cell size of 10 metres was used.

- Maps at 1:10,000 scale in Geosoft MAP format, as follow,

  Hopeful_Magfin: Total magnetic intensity contours and colour image

  Hopeful_dBdt: VTEM dB/dt profiles, Time Gates 0.234 – 6.578 ms in linear - logarithmic scale

  Hopeful_EMLP: VTEM B-field profiles, Time Gates 0.234 – 6.578 ms in linear - logarithmic scale

- A *readme.txt* file describing the content of digital data, as described above.

6. CONCLUSIONS

A helicopter-borne versatile time domain electromagnetic (VTEM) geophysical survey has been completed over the Hopeful property, located in Yukon, Canada.

The total area coverage is 17.42 km^2. Total survey line coverage is 211.3 line kilometres. The principal sensors included a Time Domain EM system and a magnetometer. Results have been presented as stacked profiles and contour colour images at a scale of 1:10,000.

Final data processing at the office of Geotech Ltd. in Aurora, Ontario was carried out under the supervision of Andrei Bagrianski, Surveys Manager.

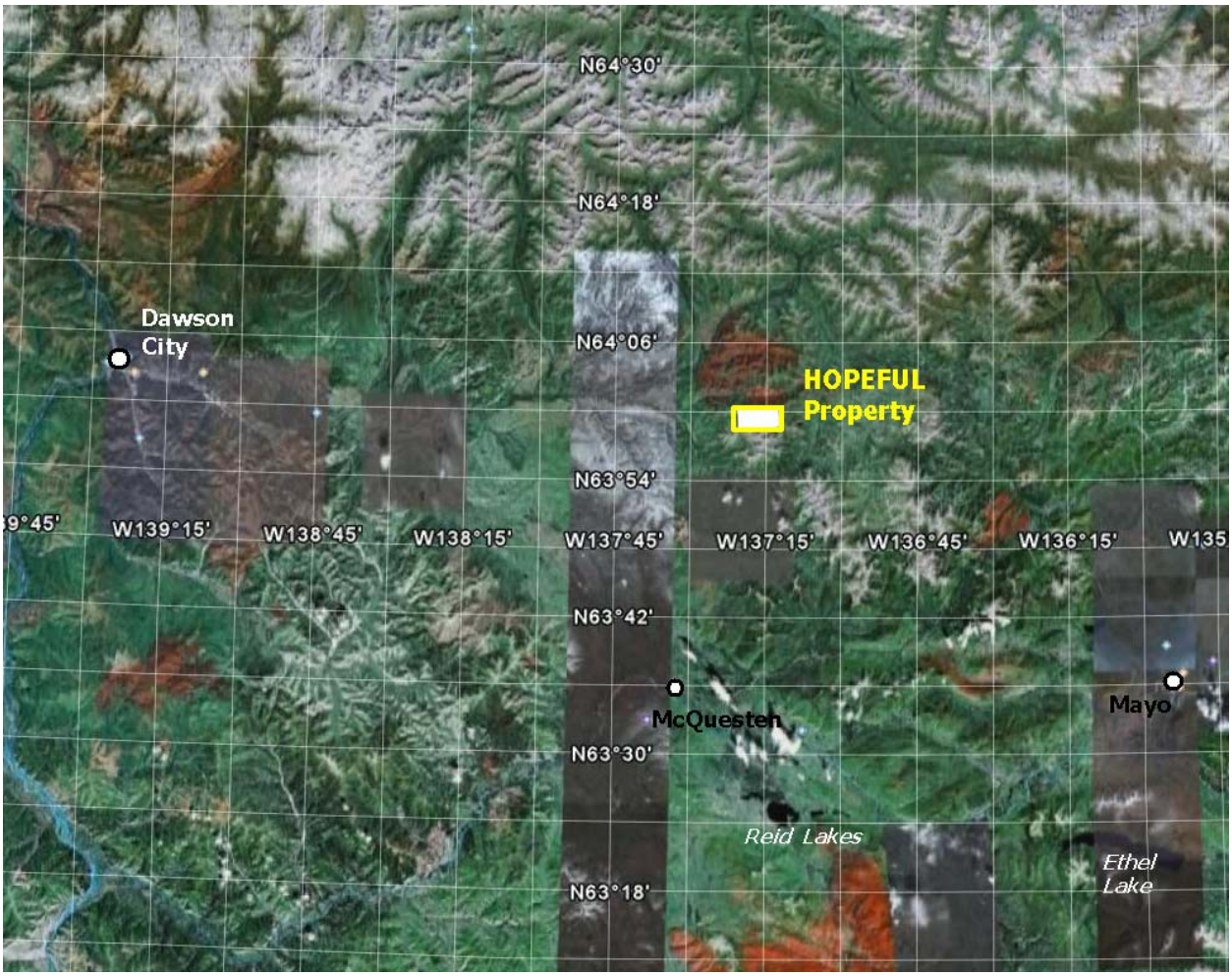
A number of EM anomaly groupings were identified. Ground follow-up of those anomalies should be carried out if favourably supported by other geoscientific data.

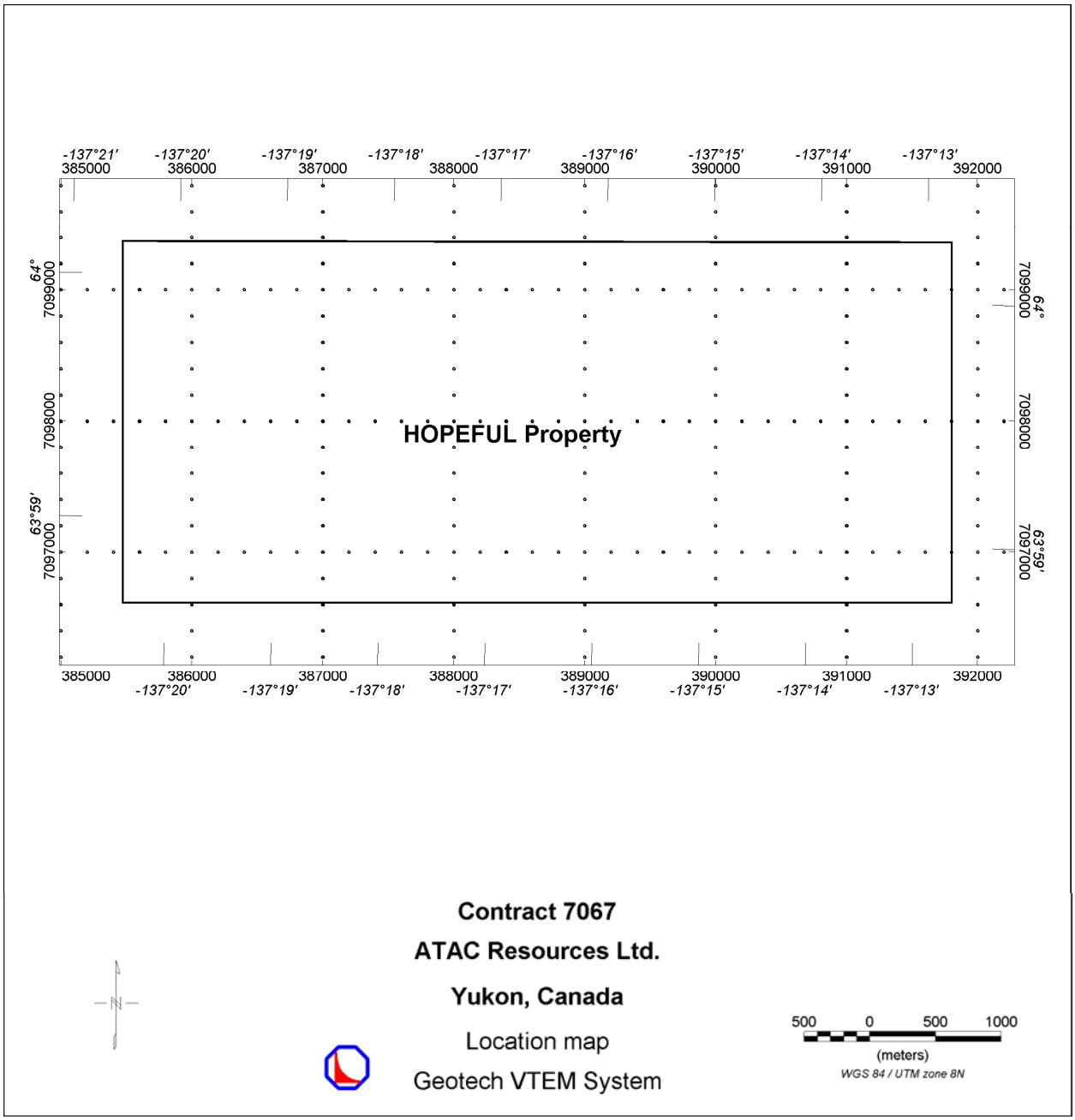
Respectfully submitted,

George Lev
Geotech Ltd.
November, 2007

APPENDIX A

SURVEY BLOCK LOCATION MAP




-137°21'
385000
-137°20'
386000
-137°19'
387000
-137°18'
388000
-137°17'
-137°16'
389000
-137°15'
390000
-137°14'
391000
-137°13'
392000
64°
7099000
7098000
63°59'
7097000
HOPEFUL Property
Contract 7067
ATAC Resources Ltd.
Yukon, Canada
Location map
Geotech VTEM System
500
0
500
1000
(meters)
WGS 84 / UTM zone 8N

APPENDIX B

SURVEY BLOCK COORDINATES
(WGS 84, UTM zone 8 north)

HOPEFUL property

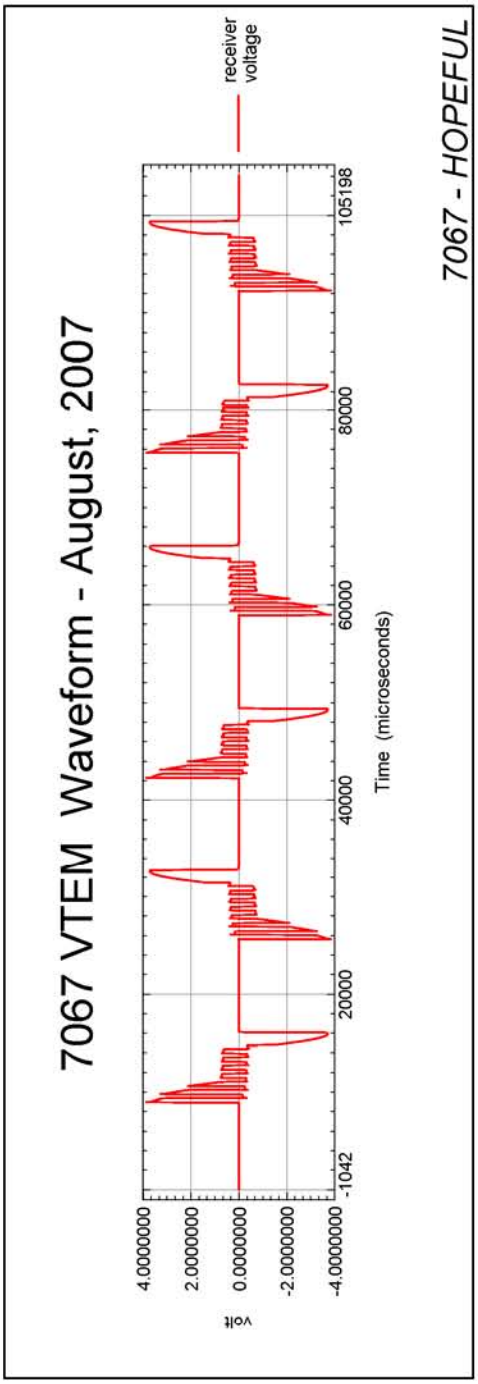
Easting	Northing
x	y
391804	7099362
391804	7096616
385472	7096616
385472	7099373

APPENDIX C

MODELING VTEM DATA

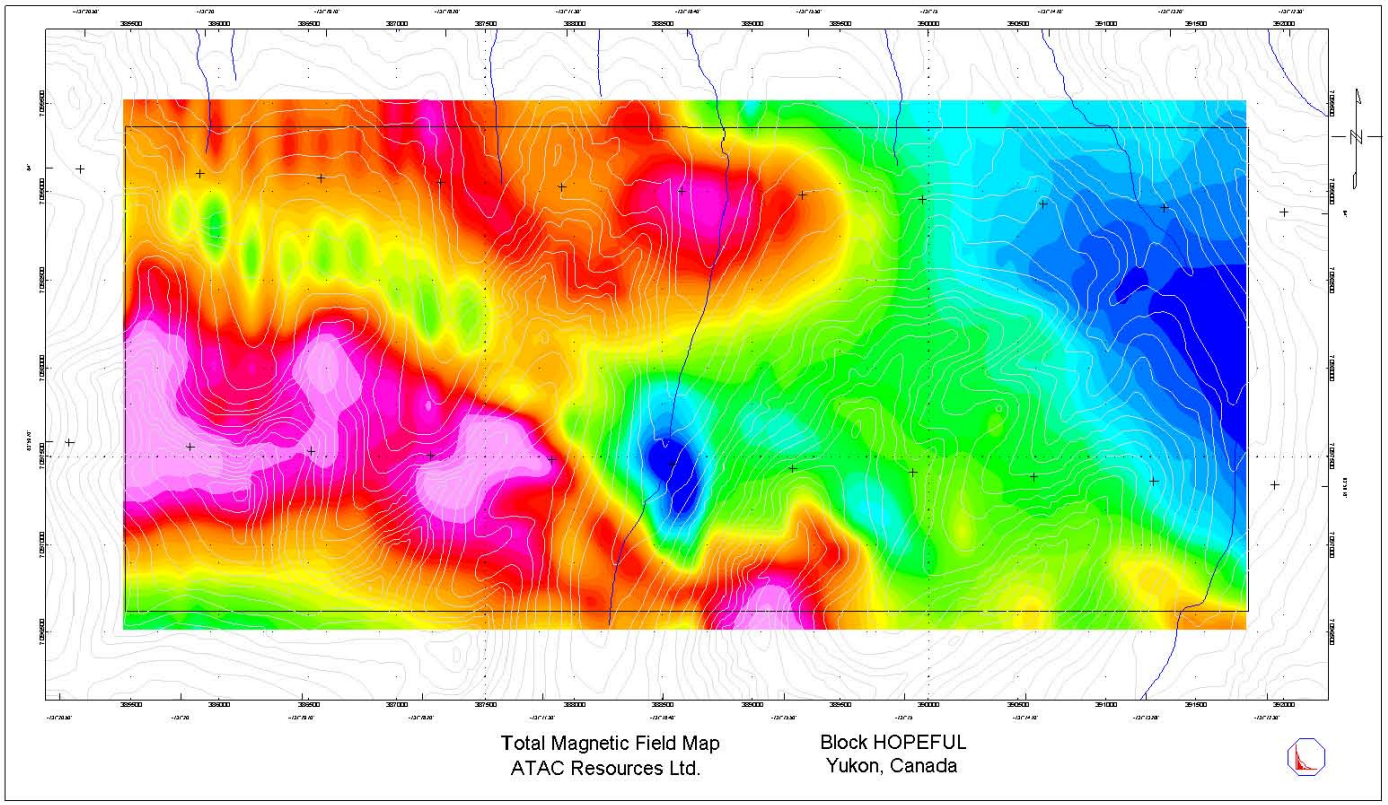
APPENDIX D

VTEM WAVEFORM



APPENDIX E

GEOPHYSICAL MAPS



MODELING VTEM DATA

Introduction

The VTEM system is based on a concentric or central loop design, whereby, the receiver is positioned at the centre of a 26.1 meters diameter transmitter loop that produces a dipole moment up to 625,000 NIA at peak current. The wave form is a bi-polar, modified square wave with a turn-on and turn-off at each end. With a base frequency of 30 Hz, the duration of each pulse is approximately 7.5 milliseconds followed by an off time where no primary field is present.

During turn-on and turn-off, a time varying field is produced (dB/dt) and an electro-motive force (emf) is created as a finite impulse response. A current ring around the transmitter loop moves outward and downward as time progresses. When conductive rocks and mineralization are encountered, a secondary field is created by mutual induction and measured by the receiver at the centre of the transmitter loop.

Measurements are made during the off-time, when only the secondary field (representing the conductive targets encountered in the ground) is present.

Late in 2006, Geotech Ltd. incorporated a B-Field measurement in the VTEM system. The B-Field measurements have the advantage of containing more spectral energy at low spectral frequencies than the dB/dt measurements; hence, greater amplitudes and accuracies when encountering targets with higher conductances (> 500 Siemens). The converse is true at higher spectral frequencies where dB/dt measurements are best applied. The B-field is most widely used in nickel exploration where a small percentage of targets are extremely conductive (> 2500 Siemens) and less resolvable or invisible (below the noise threshold) using dB/dt measurements.

Efficient modeling of the results can be carried out on regularly shaped geometries, thus yielding close approximations to the parameters of the measured targets. The following is a description of a series of common models made for the purpose of promoting a general understanding of the measured results.

Variation of Plate Depth

Geometries represented by plates of different strike length, depth extent, dip, plunge and depth below surface can be varied with characteristic parameters like conductance of the target, conductance of the host and conductivity/thickness and thickness of the overburden layer.

Diagrammatic models for a vertical plate are shown in figures A and G at two different depths, all other parameters remaining constant. With this transmitter-receiver geometry, the classic **M** shaped response is generated. Figure A shows a plate where the top is near surface. Here, amplitudes of the duel peaks are higher and symmetrical with the zero centre positioned directly above the plate. Most important is the separation distance of the peaks. This distance is small when the plate is near surface and widens with a linear relationship as the plate (depth to top) increases. Figure G shows a much deeper plate where the separation distance of the peaks is much wider and the amplitudes of the channels have decreased.

Variation of Plate Dip

As the plate dips and departs from the vertical position, the peaks become asymmetrical. Figure B shows a near surface plate dipping 80º. Note that the direction of dip is toward the high shoulder of the response and the top of the plate remains under the centre minimum.

As the dip increases, the aspect ratio (Min/Max) decreases and this aspect ratio can be used as an empirical guide to dip angles from near 90º to about 30º. The method is not sensitive enough where dips are less than about 30º. Figure E shows a plate dipping 45º and, at this angle, the minimum shoulder starts to vanish. In Figure D, a flat lying plate is shown, relatively near surface. Note that the twin peak anomaly has been replaced by a symmetrical shape with large, bell shaped, channel amplitudes which decay relative to the conductance of the plate.

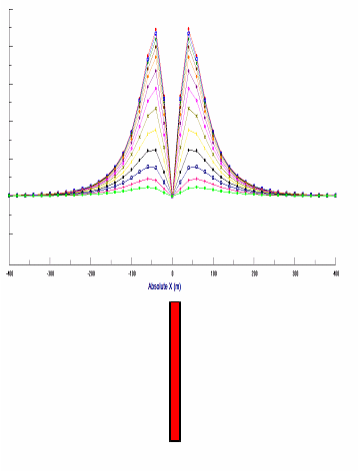
Figure H shows a special case where two plates are positioned to represent a synclinal structure. Note that the main characteristic to remember is the centre amplitudes are higher (approximately double) compared to the high shoulder of a single plate. This model is very representative of tightly folded formations where the conductors where once flat lying.

Variation of Prism Depth

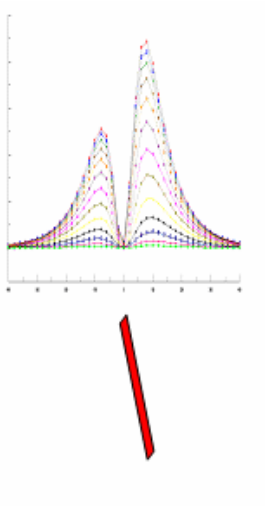
Finally, with prism models, another algorithm is required to represent current on the plate. A plate model is considered to be infinitely thin with respect to thickness and incapable of representing the current in the thickness dimension. A prism model is constructed to deal with this problem, thereby, representing the thickness of the body more accurately.

Figures C, F and I show the same prism at increasing depths. Aside from an expected decrease in amplitude, the side lobes of the anomaly show a widening with deeper prism depths of the bell shaped early time channels.

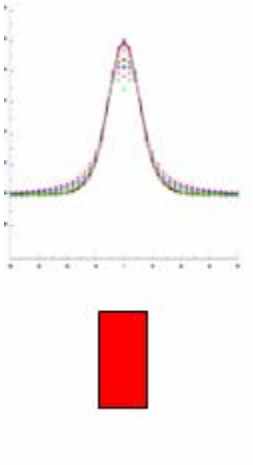
A



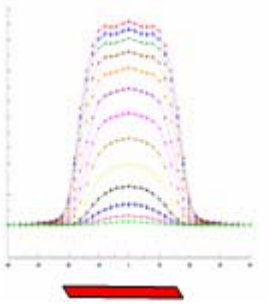
B



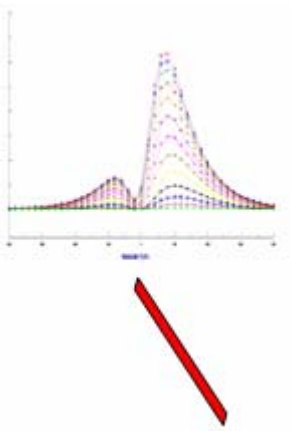
C



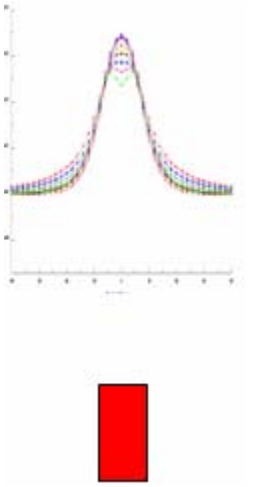
D



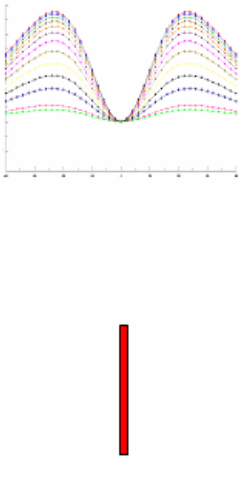
E



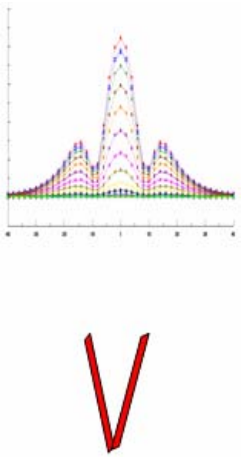
F



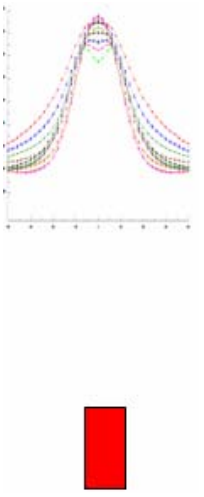
G



H



I



General Modeling Concepts

A set of models has been produced for the Geotech VTEM® system with explanation notes (see models A to I above). The reader is encouraged to review these models, so as to get a general understanding of the responses as they apply to survey results. While these models do not begin to cover all possibilities, they give a general perspective on the simple and most commonly encountered anomalies.

When producing these models, a few key points were observed and are worth noting as follows:

- For near vertical and vertical plate models, the top of the conductor is always located directly under the centre low point between the two shoulders in the classic **M** shaped response.

- As the plate is positioned at an increasing depth to the top, the shoulders of the **M** shaped response, have a greater separation distance.

- When faced with choosing between a flat lying plate and a prism model to represent the target (broad response) some ambiguity is present and caution should be exercised.

- With the concentric loop system and Z-component receiver coil, virtually all types of conductors and most geometries are most always well coupled and a response is generated (see model H). Only concentric loop systems can map this type of target.

The modelling program used to generate the responses was prepared by PetRos Eikon Inc. and is one of a very few that can model a wide range of targets in a conductive half space.

General Interpretation Principals

Magnetics

The total magnetic intensity responses reflect major changes in the magnetite and/or other magnetic minerals content in the underlying rocks and unconsolidated overburden. Precambrian rocks have often been subjected to intense heat and pressure during structural and metamorphic events in their history. Original signatures imprinted on these rocks at the time of formation have, it most cases, been modified, resulting in low magnetic susceptibility values.

The amplitude of magnetic anomalies, relative to the regional background, helps to assist in identifying specific magnetic and non-magnetic rock units (and conductors) related to, for example, mafic flows, mafic to ultramafic intrusives, felsic intrusives, felsic volcanics and/or sediments etc. Obviously, several geological sources can produce the same magnetic response. These ambiguities can be reduced considerably if basic geological information on the area is available to the geophysical interpreter.

In addition to simple amplitude variations, the shape of the response expressed in the wave length and the symmetry or asymmetry, is used to estimate the depth, geometric parameters and magnetization of the anomaly. For example, long narrow magnetic linears usually reflect mafic flows or intrusive dyke features. Large areas with complex magnetic patterns may be produced by intrusive bodies with significant magnetization, flat lying magnetic sills or sedimentary iron formation. Local isolated circular magnetic patterns often represent plug-like igneous intrusives such as kimberlites, pegmatites or volcanic vent areas.

Because the total magnetic intensity (TMI) responses may represent two or more closely spaced bodies within a response, the second derivative of the TMI response may be helpful for distinguishing these complexities. The second derivative is most useful in mapping near surface linears and other subtle magnetic structures that are partially masked by nearby higher amplitude magnetic features. The broad zones of higher magnetic amplitude, however, are severely attenuated in the vertical derivative results. These higher amplitude zones reflect rock units having strong magnetic susceptibility signatures. For this reason, both the TMI and the second derivative maps should be evaluated together.

Theoretically, the second derivative, zero contour or colour delineates the contacts or limits of large sources with near vertical dip and shallow depth to the top. The vertical gradient map also aids in determining contact zones between rocks with a susceptibility contrast, however, different, more complicated rules of thumb apply.

Concentric Loop EM Systems

Concentric systems with horizontal transmitter and receiver antennae produce much larger responses for flat lying conductors as contrasted with vertical plate-like conductors. The amount of current developing on the flat upper surface of targets having a substantial area in this dimension, are the direct result of the effective coupling angle, between the primary magnetic field and the flat surface area. One therefore, must not compare the amplitude/conductance of responses generated from flat lying bodies with those derived from near vertical plates; their ratios will be quite different for similar conductances.

Determining dip angle is very accurate for plates with dip angles greater than 30º. For angles less than 30º to 0º, the sensitivity is low and dips can not be distinguished accurately in the presence of normal survey noise levels.

A plate like body that has near vertical position will display a two shoulder, classic **M** shaped response with a distinctive separation distance between peaks for a given depth to top.

It is sometimes difficult to distinguish between responses associated with the edge effects of flat lying conductors and poorly conductive bedrock conductors. Poorly conductive bedrock conductors having low dip angles will also exhibit responses that may be interpreted as surfacial overburden conductors. In some situations, the conductive response has line to line continuity and some magnetic correlation providing possible evidence that the response is related to an actual bedrock source.

The EM interpretation process used, places considerable emphasis on determining an understanding of the general conductive patterns in the area of interest. Each area has different characteristics and these can effectively guide the detailed process used.

The first stage is to determine which time gates are most descriptive of the overall conductance patterns. Maps of the time gates that represent the range of responses can be very informative.

Next, stacking the relevant channels as profiles on the flight path together with the second vertical derivative of the TMI is very helpful in revealing correlations between the EM and Magnetics.

Next, key lines can be profiled as single lines to emphasize specific characteristics of a conductor or the relationship of one conductor to another on the same line. Resistivity Depth sections can be constructed to show the relationship of conductive overburden or conductive bedrock with the conductive anomaly.